

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P477175

Luminaire Tested: **IFLD-L-SA8D-830-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477175  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

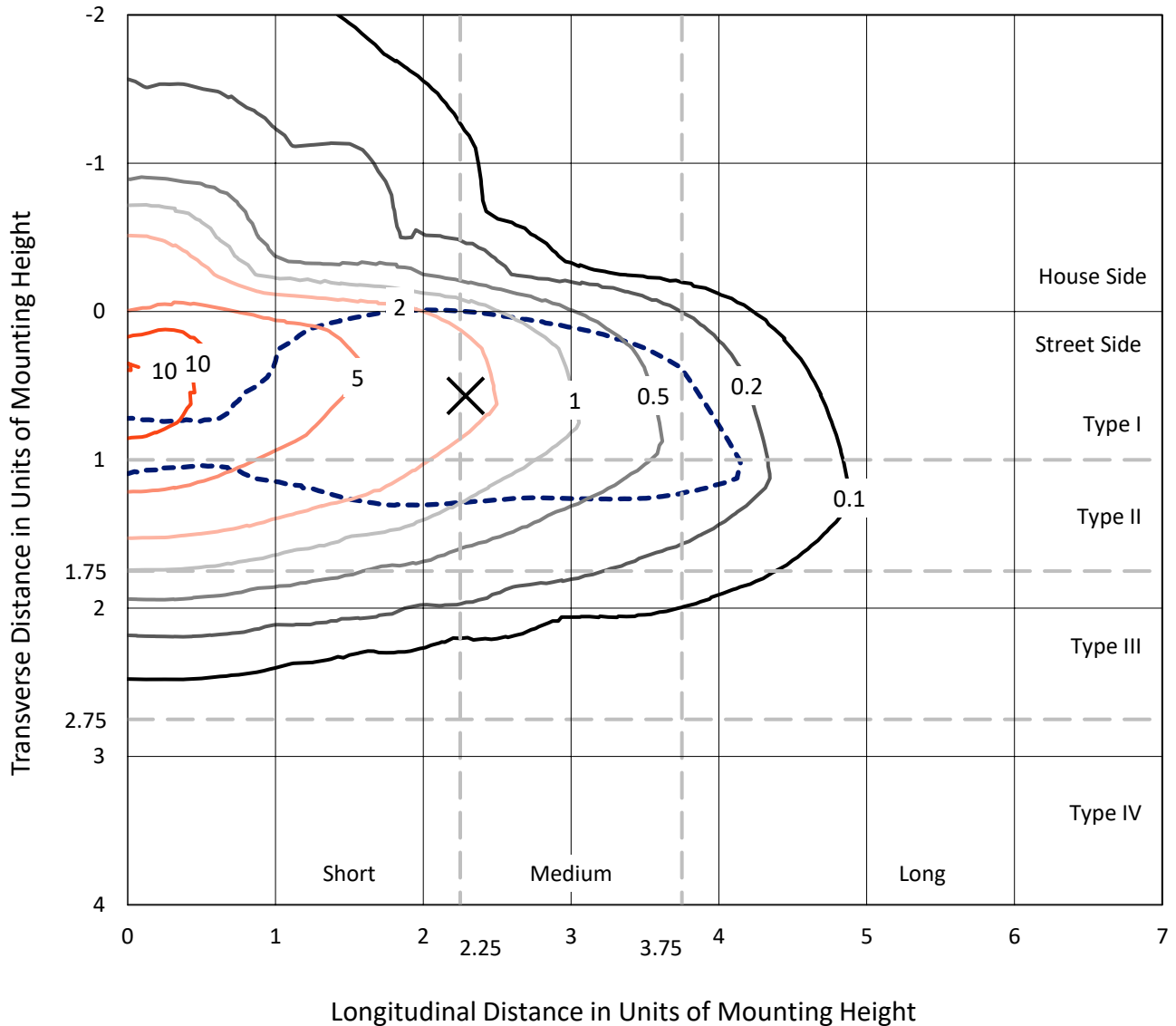
Lumens per Lamp: N/A  
Luminaire Lumens: 44546 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P477175  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

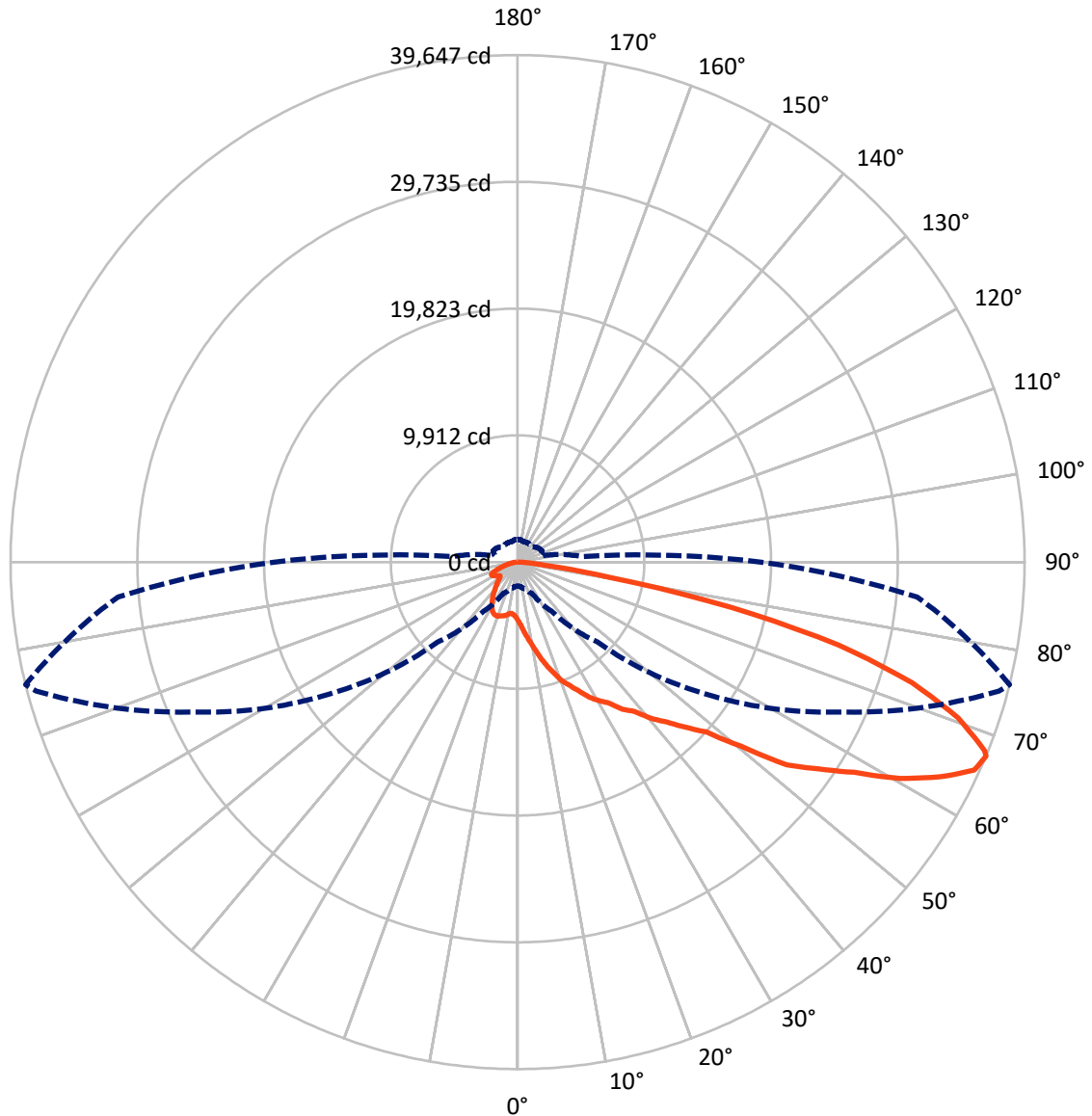
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P477175  
CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477175  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

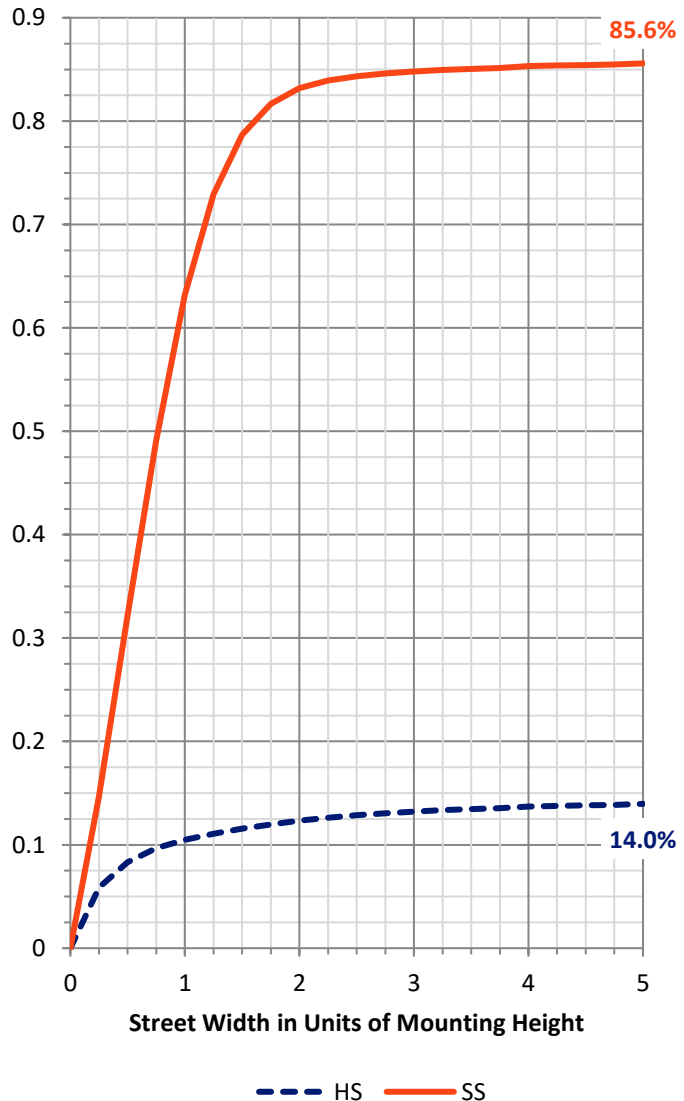
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6337.2	0.0	6337.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	38208.8	0.0	38208.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	44546.0	0.0	44546.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.0	1.2
10°-20°	1980.5	4.4
20°-30°	3681.9	8.3
30°-40°	5836.7	13.1
40°-50°	8072.7	18.1
50°-60°	9929.9	22.3
60°-70°	9240.3	20.7
70°-80°	4636.7	10.4
80°-90°	639.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44546.0	100.0
0°-180°	44546.0	100.0

**Coefficient of Utilization**



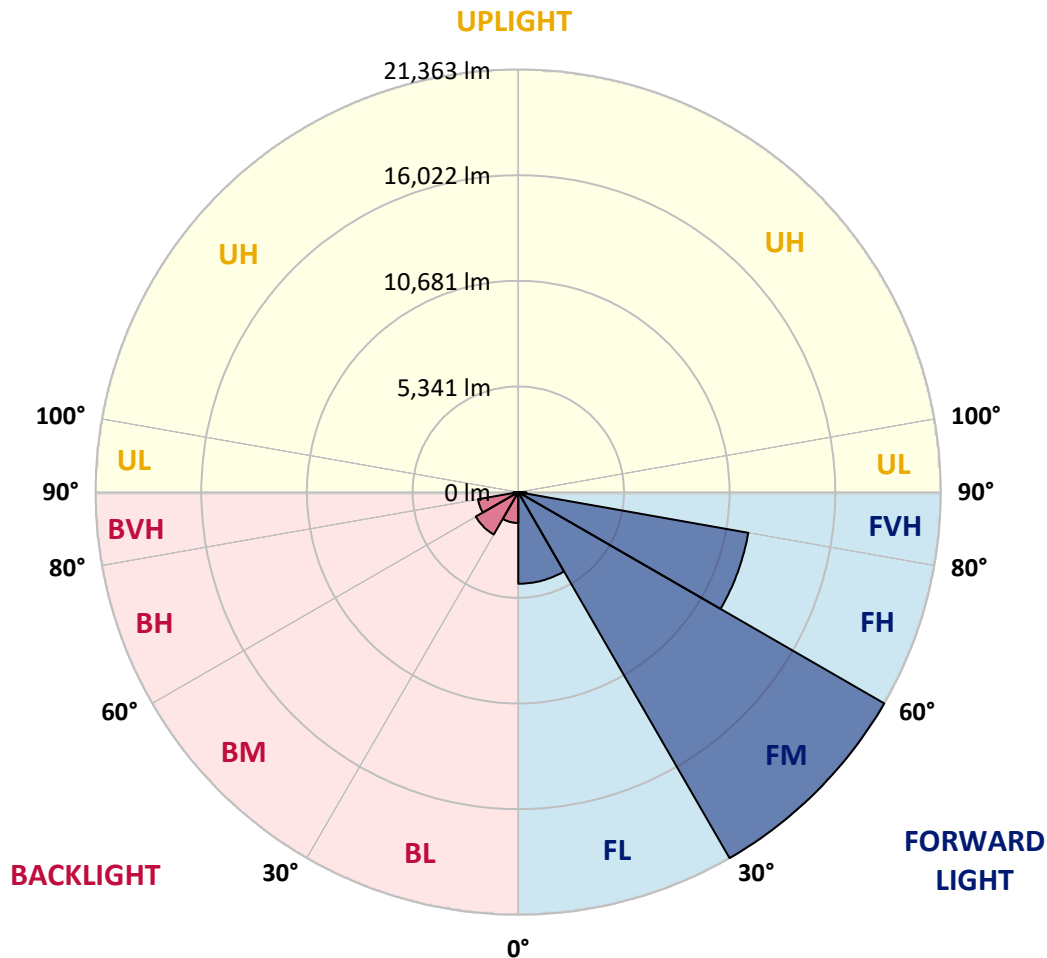
REPORT NUMBER: P477175  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4629.8	10.4			
FM (30°-60°)	21362.8	48.0			
FH (60°-80°)	11808.8	26.5			G4/12000
FVH (80°-90°)	407.3	0.9			G3/500
BL (0°-30°)	1560.6	3.5	B3/2500		
BM (30°-60°)	2476.5	5.6	B2/2500		
BH (60°-80°)	2068.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	232.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





REPORT NUMBER: P477175

CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6
2.5°	6325.2	6249.0	6172.9	6010.5	5954.6	5802.3	5523.1	5213.5	4959.6	4924.1	4746.4
5°	7848.1	7736.4	7711.1	7619.7	7330.3	7035.9	6579.0	6081.5	5462.2	5507.9	4898.7
7.5°	8990.3	8924.3	8787.2	8700.9	8528.4	8137.5	7665.4	7005.4	6218.6	6066.3	5238.8
10°	9853.3	9761.9	9756.8	9680.7	9589.3	9188.3	8827.9	7939.5	6929.3	6721.2	5655.1
12.5°	10289.9	10274.6	10543.7	10543.7	10508.1	10340.6	9721.3	8909.1	7604.4	7533.4	6137.4
15°	10762.0	10635.1	10868.6	11046.2	11137.6	11223.9	10711.2	9853.3	8467.4	8330.4	6655.2
17.5°	10762.0	10751.8	10985.3	11279.8	11756.9	11868.6	11589.4	10721.4	9183.2	9081.7	7223.7
20°	10579.2	10726.4	10888.9	11284.8	11802.6	12254.4	12335.6	11609.7	9975.1	9893.9	7868.4
22.5°	11432.1	11289.9	11457.4	11609.7	12010.8	12696.1	12919.4	12391.5	10807.7	10498.0	8452.2
25°	12863.6	12767.1	12645.3	12421.9	12589.5	12889.0	13229.1	12970.2	11518.3	11173.2	9015.7
27.5°	14259.6	14264.7	14000.7	13513.4	13152.9	13213.9	13614.9	13477.8	12117.4	11965.1	9401.5
30°	16244.5	16122.6	15828.2	15168.3	14462.7	13884.0	13818.0	13949.9	12878.8	12584.4	9954.8
32.5°	17731.9	17757.2	17341.0	16391.7	15427.2	14955.1	14376.4	14432.2	13361.1	13142.8	10396.5
35°	18935.0	18904.5	18610.1	17823.2	16681.0	16112.5	15330.7	15010.9	14483.0	14137.8	11071.6
37.5°	20234.5	19985.8	19508.6	18620.2	17889.2	17102.4	16340.9	15620.1	15229.2	14812.9	11650.3
40°	20757.4	20757.4	20117.8	19711.7	18843.6	18249.7	17757.2	16422.2	16137.9	16056.7	12391.5
42.5°	20386.8	20615.3	20351.3	19889.3	19534.0	18782.7	18650.7	17254.7	17259.8	17097.3	13279.9
45°	20351.3	20036.5	19818.3	19935.0	19767.5	19726.9	20061.9	18407.0	18437.5	18417.2	14472.8
47.5°	19330.9	19188.8	19513.7	19706.6	19843.6	20473.1	21437.6	19782.7	20001.0	19848.7	15848.5
50°	18315.6	18290.3	18493.3	19193.9	19787.8	20823.4	22747.3	21904.7	22620.4	22610.3	18341.0
52.5°	15533.8	15802.8	16599.8	18082.1	19549.2	21300.6	23737.2	24615.5	25981.0	26351.6	20407.1
55°	12873.7	12731.6	13909.3	16061.7	18508.6	21488.4	24843.9	26245.0	28255.2	28524.3	22529.1
57.5°	10015.7	10279.7	11208.7	13274.8	16356.2	20559.4	25656.1	27854.2	30823.9	31032.0	24991.1
60°	7472.5	7508.0	8528.4	10193.4	13493.1	18462.9	25920.1	29504.0	33768.2	34362.1	27569.9
62.5°	4700.7	4914.0	5690.6	7330.3	10157.9	15528.7	24737.3	30504.1	36854.7	37012.0	30169.0
65°	2533.1	2670.2	3254.0	4284.5	7096.8	11746.8	21600.1	29905.1	38306.5	39240.6	31326.5
67°	1873.2	1898.6	2167.6	2736.2	4746.4	8843.1	18011.1	27737.4	38966.4	39646.7	31372.1
67.5°	1756.4	1792.0	2005.2	2457.0	4208.3	8142.5	17071.9	26965.8	38672.0	39403.0	31016.8
70°	1502.6	1512.8	1563.5	1690.4	2360.5	4898.7	11625.0	22097.6	35844.5	36545.0	28524.3
72.5°	1335.1	1345.2	1365.6	1390.9	1599.1	2832.6	7071.4	17005.9	31153.9	32270.7	24610.4
75°	1172.6	1208.2	1218.3	1198.0	1360.5	1842.7	3761.6	12498.1	25412.5	25955.6	19138.0
77.5°	995.0	1010.2	1030.5	1050.8	1213.3	1375.7	1807.2	8437.0	17442.5	17112.5	10350.8
80°	837.6	842.7	857.9	873.1	1050.8	1050.8	1025.4	4558.6	7619.7	7284.6	3497.6
82.5°	599.0	634.5	670.1	710.7	873.1	705.6	670.1	2030.6	2411.3	2294.5	1182.8
85°	233.5	284.3	441.6	487.3	553.3	380.7	446.7	878.2	1005.1	995.0	441.6
87.5°	40.6	45.7	121.8	187.8	203.1	132.0	213.2	314.7	375.7	406.1	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477175  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6	4558.6
2.5°	4599.2	4441.8	4254.0	4066.2	3944.4	3751.5	3736.2	3619.5	3604.2	3563.6	3583.9
5°	4634.8	4446.9	4066.2	3766.7	3629.6	3517.9	3543.3	3492.6	3477.3	3452.0	3411.3
7.5°	4914.0	4543.4	3974.8	3715.9	3614.4	3563.6	3563.6	3502.7	3457.0	3487.5	3517.9
10°	5096.7	4589.1	4045.9	3787.0	3705.8	3594.1	3634.7	3558.6	3583.9	3523.0	3523.0
12.5°	5391.1	4848.0	4193.1	3893.6	3761.6	3660.1	3700.7	3614.4	3594.1	3599.2	3583.9
15°	5787.1	5020.6	4259.1	3954.5	3863.1	3736.2	3705.8	3629.6	3553.5	3528.1	3558.6
17.5°	6157.7	5233.8	4304.8	3990.0	3842.8	3700.7	3665.2	3568.7	3543.3	3467.2	3406.3
20°	6599.3	5487.6	4365.7	4020.5	3766.7	3624.5	3533.2	3436.7	3350.4	3304.7	3325.0
22.5°	6893.7	5619.6	4396.2	3959.6	3655.0	3523.0	3330.1	3264.1	3142.3	3091.5	3050.9
25°	7376.0	5782.0	4320.0	3792.1	3457.0	3243.8	3071.2	2979.8	2893.5	2827.6	2807.2
27.5°	7497.8	5903.9	4142.3	3507.8	3142.3	2918.9	2771.7	2660.0	2604.2	2502.7	2482.4
30°	7853.2	5782.0	3878.4	3162.6	2842.8	2614.3	2467.1	2385.9	2253.9	2228.5	2172.7
32.5°	8081.6	5817.6	3543.3	2827.6	2497.6	2294.5	2198.1	2116.9	2081.3	1959.5	1929.0
35°	8462.4	5695.7	3203.2	2517.9	2213.3	2055.9	1974.7	1949.3	1832.6	1776.7	1726.0
37.5°	8706.0	5624.7	2863.1	2167.6	1903.6	1837.7	1863.0	1756.4	1614.3	1507.7	1472.2
40°	9132.4	5599.3	2477.3	1878.3	1690.4	1675.2	1756.4	1553.4	1294.5	1203.1	1152.3
42.5°	9746.7	5426.7	2177.8	1619.4	1522.9	1588.9	1604.1	1294.5	1147.3	1071.1	1035.6
45°	10335.5	5462.2	1883.3	1340.2	1324.9	1421.4	1385.9	1096.5	1010.2	954.4	984.8
47.5°	11467.6	5639.9	1594.0	1116.8	1193.0	1284.3	1076.2	979.7	898.5	857.9	863.0
50°	13218.9	5812.5	1340.2	1020.4	1127.0	1162.5	923.9	888.4	883.3	802.1	797.0
52.5°	14269.8	5746.5	1294.5	1142.2	1208.2	1162.5	1005.1	979.7	939.1	903.6	863.0
55°	15939.9	5939.4	1390.9	1335.1	1370.6	1116.8	1127.0	1116.8	1086.3	995.0	1020.4
57.5°	17269.9	6066.3	1517.8	1492.5	1472.2	1162.5	1177.7	1182.8	1162.5	1121.9	1157.4
60°	19097.4	6320.1	1649.8	1654.9	1660.0	1264.0	1289.4	1319.9	1314.8	1299.6	1309.7
62.5°	20219.3	6203.4	1797.0	1878.3	1852.9	1472.2	1467.1	1487.4	1487.4	1512.8	1528.0
65°	20051.8	5771.9	1873.2	2076.2	1944.3	1624.4	1624.4	1634.6	1639.7	1690.4	1695.5
67°	19046.6	5000.3	1832.6	2106.7	1944.3	1685.4	1685.4	1695.5	1660.0	1792.0	1751.4
67.5°	18579.6	4771.8	1797.0	2081.3	1929.0	1680.3	1680.3	1685.4	1654.9	1781.8	1741.2
70°	16158.2	3543.3	1548.3	1842.7	1786.9	1634.6	1634.6	1604.1	1578.8	1746.3	1710.7
72.5°	13792.6	2573.7	1243.7	1568.6	1614.3	1573.7	1583.8	1507.7	1436.6	1553.4	1522.9
75°	10564.0	1893.5	969.6	1208.2	1365.6	1472.2	1538.1	1345.2	1253.9	1284.3	1228.5
77.5°	5893.7	1233.6	766.5	893.4	1040.7	1370.6	1477.2	1213.3	1025.4	989.9	989.9
80°	2000.1	720.8	563.5	665.0	715.8	1213.3	1380.8	984.8	807.1	771.6	746.2
82.5°	756.4	441.6	385.8	456.9	456.9	959.4	1127.0	756.4	609.2	786.8	802.1
85°	345.2	264.0	253.8	264.0	264.0	588.9	797.0	492.4	548.3	472.1	416.3
87.5°	137.1	126.9	116.8	111.7	91.4	101.5	274.1	132.0	248.7	66.0	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)