

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: P481820

Luminaire Tested: **IFLD-S-SA2D-830-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

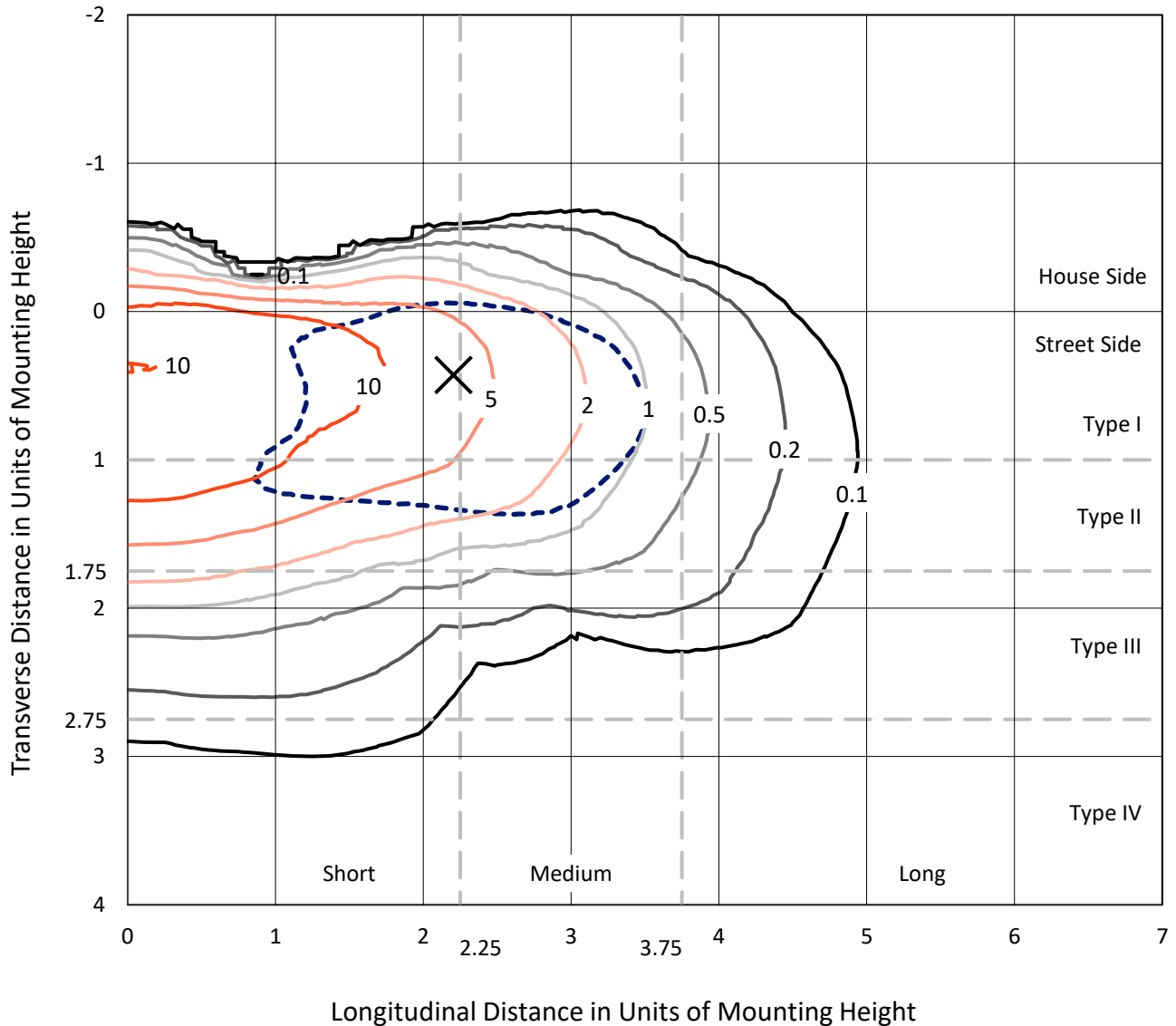
Lumens per Lamp: N/A
Luminaire Lumens: 8949.3 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

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Iso-Footcandle Lines of Horizontal Illumination

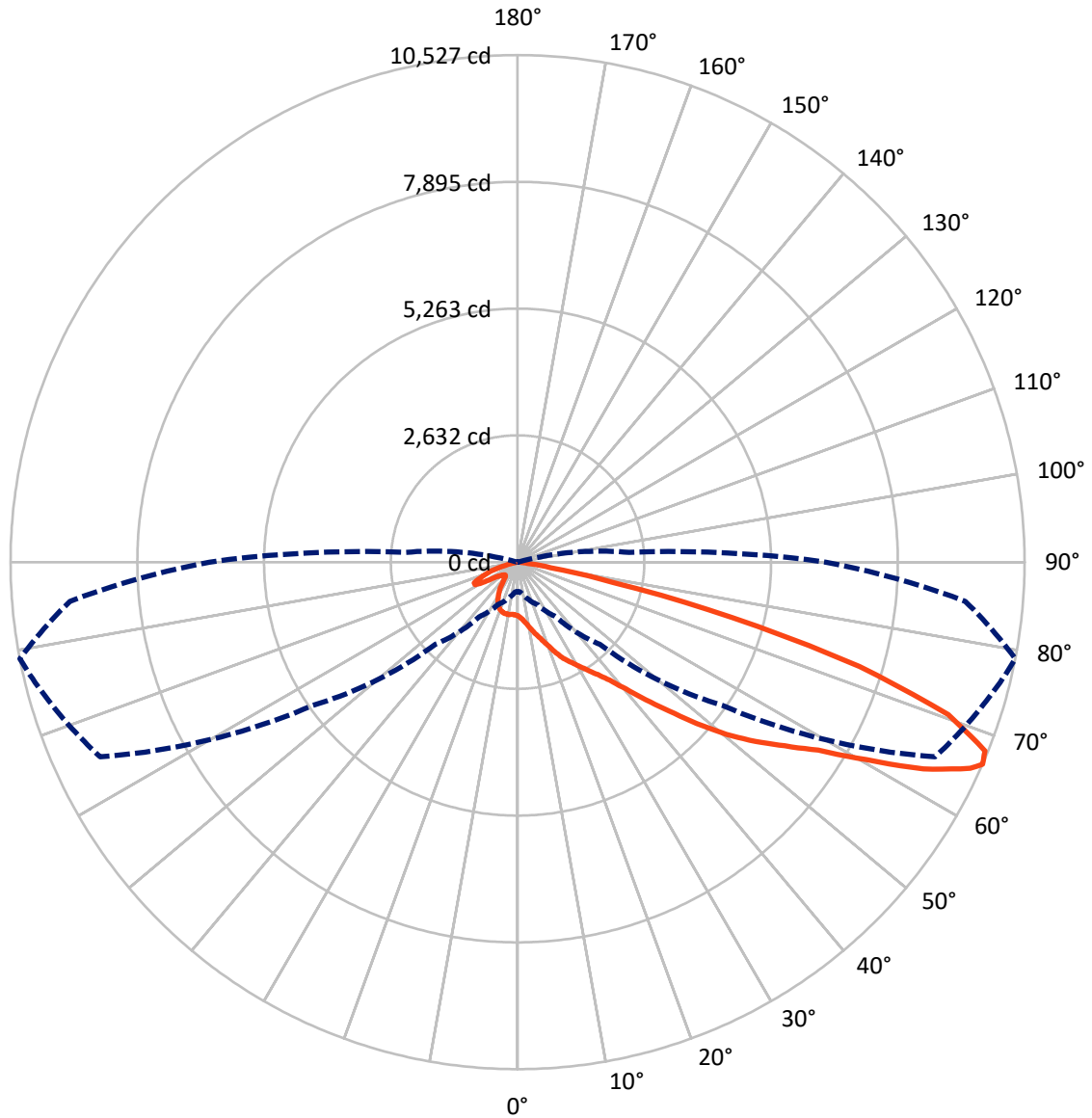
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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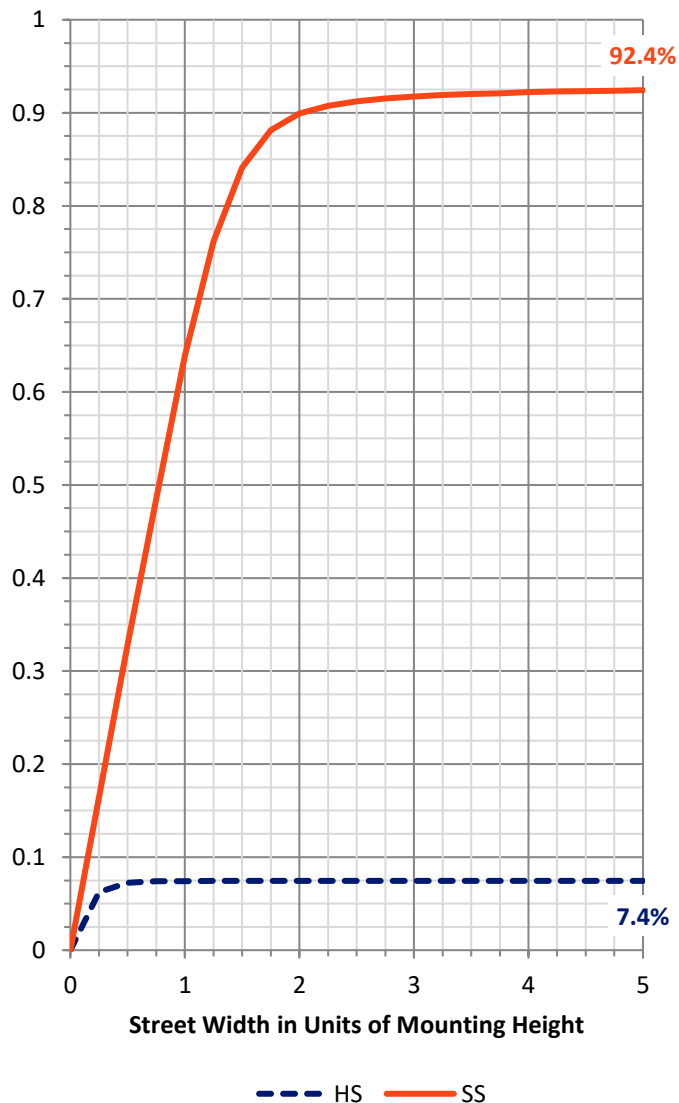
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.0	0.0	672.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8277.3	0.0	8277.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	8949.3	0.0	8949.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.2
10°-20°	289.8	3.2
20°-30°	481.4	5.4
30°-40°	826.9	9.2
40°-50°	1498.0	16.7
50°-60°	2367.9	26.5
60°-70°	2409.5	26.9
70°-80°	918.9	10.3
80°-90°	51.5	0.6
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°	8949.3	100.0
0°-180°	8949.3	100.0

Coefficient of Utilization

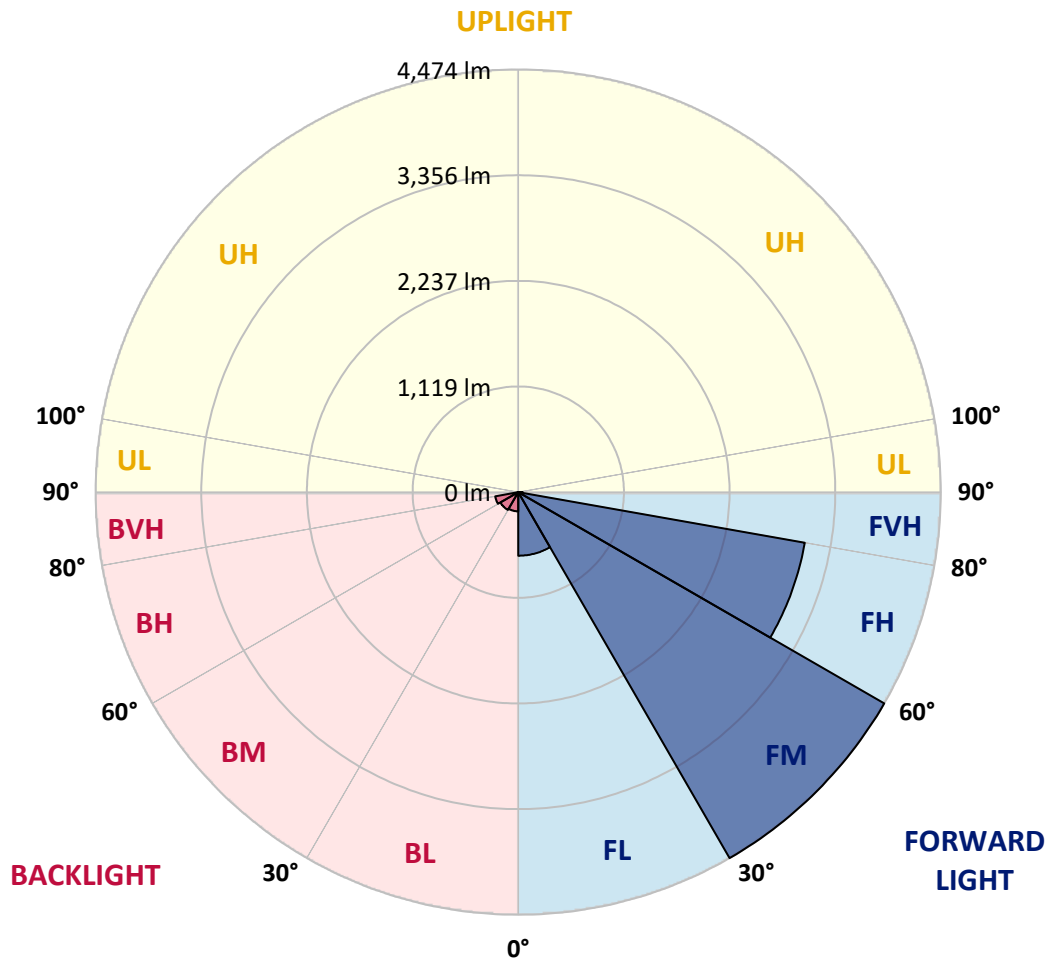


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.3	7.5			
FM (30°-60°)	4474.4	50.0			
FH (60°-80°)	3080.7	34.4			G2/5000
FVH (80°-90°)	48.9	0.5			G1/100
BL (0°-30°)	203.2	2.3	B1/500		
BM (30°-60°)	218.4	2.4	B0/220		
BH (60°-80°)	247.7	2.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4
2.5°	1261.0	1259.6	1254.1	1244.5	1232.0	1227.9	1210.0	1185.1	1171.3	1156.2	1149.3
5°	1347.9	1341.0	1357.6	1350.7	1353.5	1320.3	1298.3	1280.3	1227.9	1207.2	1174.1
7.5°	1367.3	1374.2	1372.8	1383.8	1394.9	1407.3	1392.1	1365.9	1313.5	1283.1	1247.2
10°	1367.3	1364.5	1375.5	1390.7	1422.4	1450.0	1491.4	1456.9	1416.9	1381.1	1316.2
12.5°	1342.4	1338.3	1349.3	1381.1	1437.6	1494.2	1539.7	1572.8	1516.3	1487.3	1403.1
15°	1266.5	1262.4	1307.9	1364.5	1439.0	1531.4	1626.6	1680.4	1641.8	1596.3	1502.5
17.5°	1172.7	1178.2	1226.5	1320.3	1439.0	1549.4	1670.8	1788.1	1782.5	1724.6	1626.6
20°	1141.0	1145.1	1193.4	1261.0	1396.2	1561.8	1739.8	1905.3	1938.4	1869.5	1741.1
22.5°	1201.7	1197.6	1201.7	1243.1	1367.3	1550.8	1785.3	2039.2	2098.5	2044.7	1891.5
25°	1408.6	1405.9	1371.4	1307.9	1350.7	1525.9	1808.8	2127.5	2264.0	2214.4	2012.9
27.5°	1712.2	1701.1	1647.3	1514.9	1428.0	1541.1	1847.4	2213.0	2408.9	2352.3	2121.9
30°	2037.8	2011.6	1941.2	1775.6	1628.0	1597.7	1869.5	2276.5	2570.3	2498.6	2217.1
32.5°	2262.7	2297.2	2275.1	2106.8	1880.5	1728.7	1905.3	2356.5	2719.3	2672.4	2379.9
35°	2610.3	2650.4	2557.9	2408.9	2181.3	1937.1	1981.2	2421.3	2948.4	2869.7	2531.7
37.5°	3049.1	3079.4	3013.2	2730.4	2490.3	2193.7	2137.1	2556.5	3145.7	3108.4	2726.2
40°	3269.8	3416.1	3322.3	3067.0	2809.0	2552.4	2395.1	2715.2	3489.2	3458.8	2995.3
42.5°	3574.7	3647.9	3599.6	3410.6	3141.5	2935.9	2713.8	3024.2	3905.9	3905.9	3359.5
45°	3897.6	3900.3	3897.6	3743.1	3504.4	3398.1	3144.3	3411.9	4354.3	4403.9	3795.5
47.5°	4162.5	4245.3	4238.4	4145.9	3961.0	3921.0	3574.7	3853.4	4917.2	5004.1	4220.4
50°	4299.1	4391.5	4419.1	4467.4	4459.1	4543.3	4045.2	4365.3	5402.8	5616.7	4766.8
52.5°	4261.8	4268.7	4438.4	4628.8	4932.3	5168.3	4612.3	4946.1	5971.2	6182.3	5189.0
55°	3956.9	3930.7	4279.8	4497.7	5125.5	5550.4	5397.3	5670.5	6414.1	6735.6	5624.9
57.5°	3287.8	3294.7	3617.5	4060.4	4982.0	5702.2	6236.1	6616.9	7035.0	7359.2	6237.5
60°	2269.6	2261.3	2622.8	3134.6	4139.0	5419.4	6719.0	7843.5	7865.5	8325.0	7337.1
62.5°	1276.2	1279.0	1553.5	1990.9	2895.9	4428.8	6695.6	9145.9	9052.0	9454.9	8587.1
65°	722.9	740.9	929.9	1179.6	1734.3	2973.2	5758.8	9664.6	9966.8	10325.5	9345.9
66°	611.2	623.6	785.0	974.1	1383.8	2411.7	5183.4	9563.9	10253.7	10526.9	9330.7
67.5°	473.2	489.8	625.0	772.6	1015.4	1669.4	4172.1	9063.1	10306.2	10466.2	9067.2
70°	324.2	335.3	438.7	586.4	694.0	854.0	2494.5	7493.0	9351.4	9486.6	7880.7
72.5°	227.6	233.2	307.7	444.3	533.9	488.4	1237.6	5331.1	7156.4	7419.9	6129.9
75°	164.2	169.7	211.1	318.7	416.7	320.1	567.0	3405.0	4388.7	4595.7	3692.0
77.5°	118.7	125.6	143.5	205.6	302.1	224.9	278.7	1778.4	2069.5	2033.6	1588.0
80°	71.7	78.6	106.2	132.4	220.7	158.7	153.1	742.3	734.0	696.7	499.4
82.5°	33.1	38.6	56.6	89.7	154.5	110.4	73.1	264.9	231.8	212.5	140.7
85°	9.7	12.4	33.1	67.6	78.6	53.8	44.1	91.1	95.2	81.4	46.9
87.5°	0.0	1.4	15.2	16.6	23.5	17.9	16.6	23.5	44.1	35.9	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4	1113.4
2.5°	1124.4	1114.8	1091.3	1055.5	1023.7	1007.2	983.7	963.0	952.0	950.6	949.2
5°	1152.0	1125.8	1069.2	1004.4	956.1	903.7	867.8	841.6	816.8	793.3	807.1
7.5°	1189.3	1147.9	1055.5	971.3	866.4	798.8	735.4	698.1	676.0	655.3	652.6
10°	1247.2	1194.8	1045.8	894.0	774.0	674.7	609.8	556.0	525.7	489.8	503.6
12.5°	1325.9	1232.0	1009.9	823.7	669.1	564.3	471.8	384.9	336.6	299.4	300.8
15°	1404.5	1281.7	976.8	738.1	573.9	436.0	300.8	241.4	227.6	219.4	222.1
17.5°	1481.8	1321.7	925.8	651.2	465.0	277.3	219.4	207.0	200.1	191.8	191.8
20°	1575.6	1347.9	862.3	571.2	320.1	205.6	187.6	179.4	168.3	157.3	158.7
22.5°	1666.6	1370.0	789.2	469.1	215.2	178.0	157.3	146.2	136.6	125.6	125.6
25°	1757.7	1376.9	694.0	336.6	173.8	142.1	122.8	107.6	98.0	88.3	89.7
27.5°	1819.8	1334.1	604.3	215.2	139.3	107.6	85.5	73.1	64.8	55.2	55.2
30°	1855.7	1255.5	507.7	151.8	104.9	73.1	51.0	38.6	30.4	23.5	22.1
32.5°	1891.5	1192.0	398.7	115.9	69.0	38.6	19.3	6.9	0.0	0.0	0.0
35°	1963.3	1120.3	267.7	64.8	23.5	1.4	0.0	0.0	0.0	0.0	0.0
37.5°	2008.8	1021.0	122.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2123.3	971.3	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2309.6	936.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2513.8	923.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2785.6	960.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3072.5	1061.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3387.1	1156.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3661.7	1270.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4166.6	1541.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5073.1	2072.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6094.0	2466.9	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6467.9	2457.2	26.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6401.7	2322.0	26.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6058.2	2062.6	23.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5202.8	1703.9	23.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3966.6	1327.2	22.1	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2393.7	706.4	17.9	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	953.4	248.3	13.8	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	258.0	74.5	8.3	5.5	4.1	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	67.6	27.6	6.9	5.5	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	26.2	11.0	5.5	4.1	4.1	2.8	1.4	0.0	0.0	0.0	0.0
87.5°	8.3	4.1	4.1	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0
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)