

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: P483402

Luminaire Tested: **IFLD-M-SA4A-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483402  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

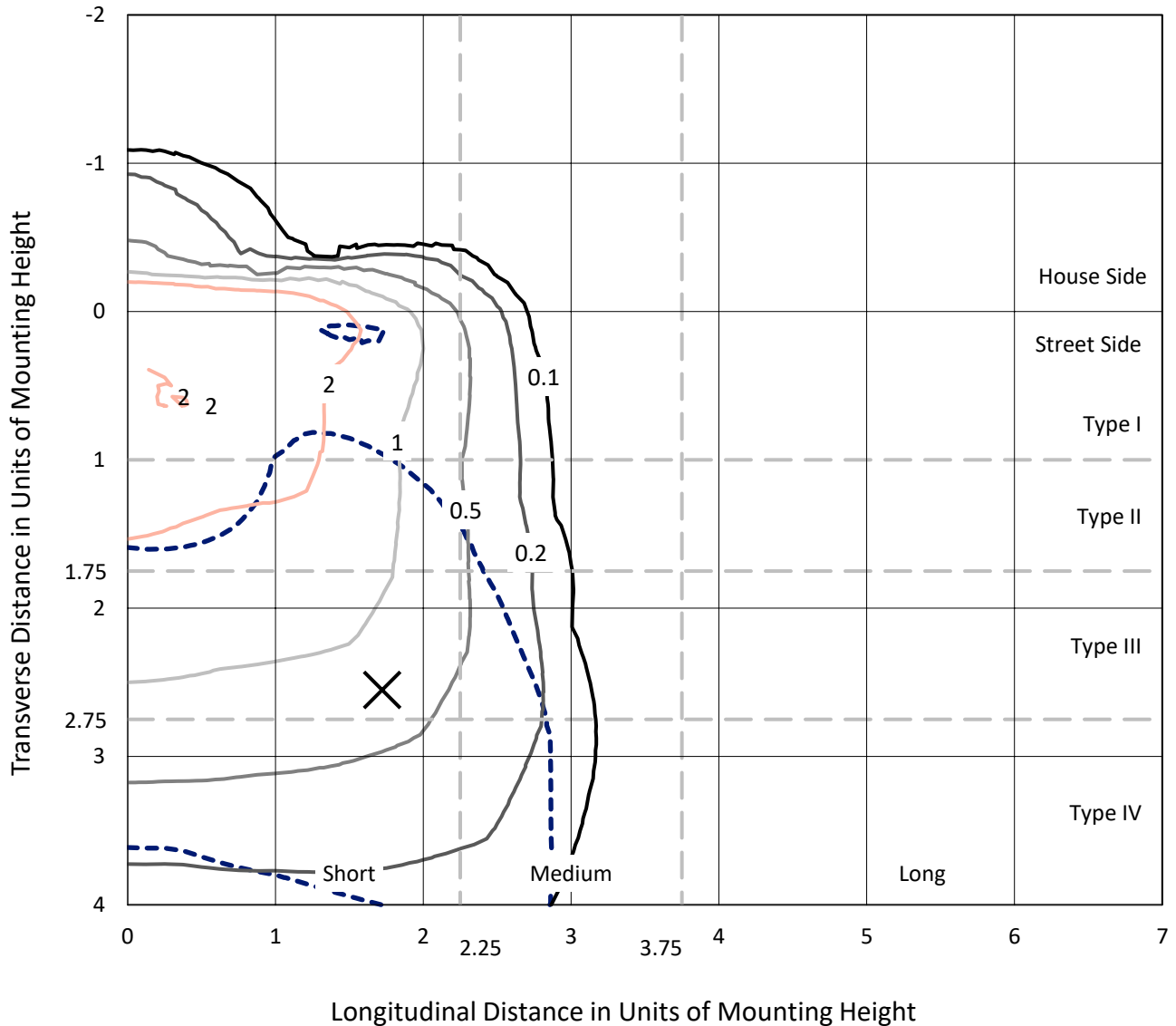
Lumens per Lamp: N/A  
Luminaire Lumens: 10610.7 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

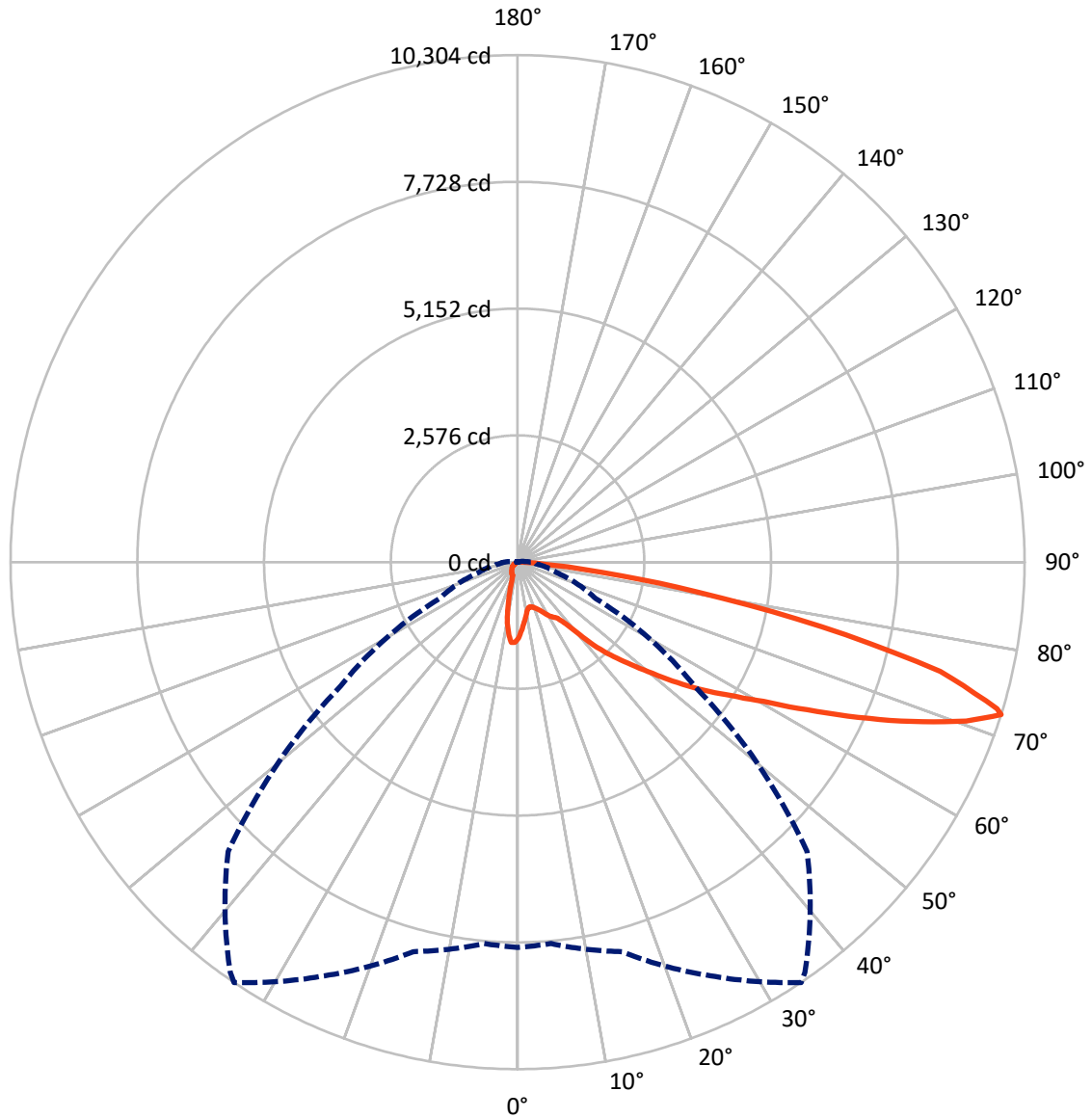
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1086.3	0.0	1086.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	9524.4	0.0	9524.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	10610.7	0.0	10610.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	1.3
10°-20°	305.1	2.9
20°-30°	460.5	4.3
30°-40°	747.3	7.0
40°-50°	1405.3	13.2
50°-60°	2297.6	21.7
60°-70°	3054.4	28.8
70°-80°	2045.5	19.3
80°-90°	160.3	1.5
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°	10610.7	100.0
0°-180°	10610.7	100.0

**Coefficient of Utilization**



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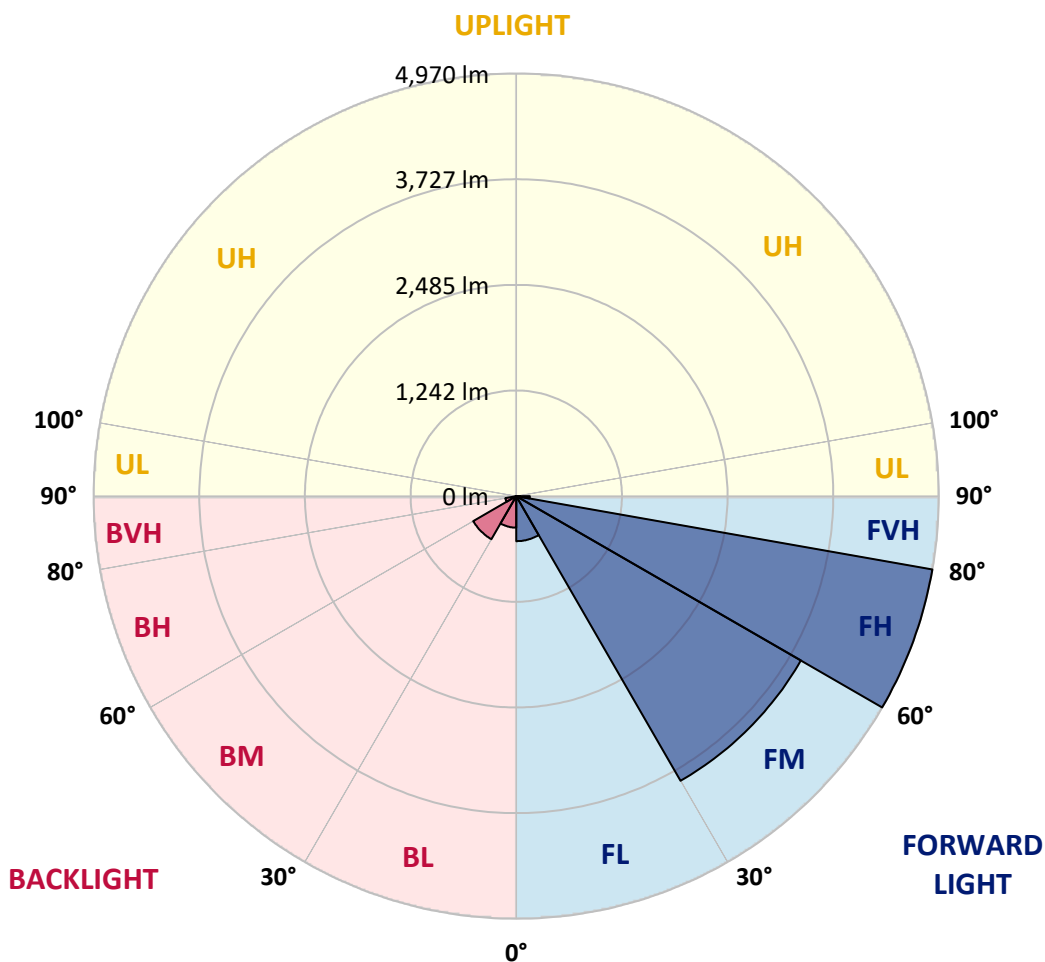
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.7	5.0			
FM (30°-60°)	3865.5	36.4			
FH (60°-80°)	4970.0	46.8			G2/5000
FVH (80°-90°)	159.3	1.5			G2/225
BL (0°-30°)	370.6	3.5	B1/500		
BM (30°-60°)	584.7	5.5	B1/1000		
BH (60°-80°)	129.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1372.9	1369.8	1379.0	1394.4	1409.7	1403.6	1432.7	1463.4	1484.9	1514.0	1549.3
5°	1199.5	1207.2	1216.4	1247.1	1267.0	1271.6	1325.3	1365.2	1431.2	1498.7	1561.6
7.5°	1041.6	1050.8	1069.2	1102.9	1144.3	1155.1	1208.8	1288.5	1374.4	1463.4	1566.2
10°	926.5	935.7	955.6	977.1	1032.3	1032.3	1106.0	1216.4	1328.4	1432.7	1567.7
12.5°	902.0	906.6	905.0	921.9	957.2	964.9	1036.9	1158.1	1288.5	1422.0	1592.2
15°	931.1	934.2	918.8	909.6	940.3	948.0	1015.5	1122.8	1262.4	1428.1	1632.1
17.5°	989.4	978.7	948.0	934.2	960.3	964.9	1027.7	1121.3	1259.4	1445.0	1678.1
20°	1023.1	1035.4	981.7	955.6	992.5	998.6	1066.1	1145.9	1274.7	1474.1	1742.6
22.5°	1083.0	1089.1	1017.0	1000.1	1035.4	1035.4	1112.1	1194.9	1311.5	1521.7	1819.3
25°	1167.3	1159.7	1075.3	1058.4	1092.2	1106.0	1182.7	1273.2	1368.3	1566.2	1889.8
27.5°	1233.3	1237.9	1168.9	1124.4	1181.1	1190.3	1273.2	1357.5	1411.2	1603.0	1975.7
30°	1331.5	1322.3	1248.6	1198.0	1268.6	1270.1	1349.9	1437.3	1494.1	1668.9	2104.6
32.5°	1448.0	1429.6	1345.3	1273.2	1329.9	1343.7	1425.0	1552.4	1622.9	1793.2	2304.0
35°	1695.0	1650.5	1512.5	1400.5	1405.1	1411.2	1537.0	1719.6	1800.9	1951.2	2570.9
37.5°	2055.5	2037.1	1880.6	1667.4	1586.1	1567.7	1708.8	1940.4	2041.7	2159.8	2917.6
40°	2412.9	2386.8	2241.1	2080.0	1932.8	1896.0	1966.5	2233.4	2325.5	2449.7	3273.4
42.5°	2810.2	2764.2	2592.4	2462.0	2369.9	2330.1	2302.5	2601.6	2705.9	2790.3	3621.7
45°	3212.1	3136.9	2888.4	2788.7	2739.6	2718.2	2715.1	3064.8	3127.7	3144.6	4008.2
47.5°	3564.9	3483.6	3258.1	3146.1	3109.3	3103.2	3275.0	3598.6	3549.6	3505.1	4439.2
50°	3836.4	3784.2	3621.7	3581.8	3554.2	3543.4	3945.3	4147.8	3920.8	3842.5	4818.1
52.5°	4256.7	4140.1	3956.1	3969.9	4066.5	4068.0	4624.9	4669.3	4229.1	4074.2	5175.5
55°	4592.6	4515.9	4365.6	4345.7	4600.3	4627.9	5233.8	5065.1	4400.9	4295.1	5307.5
57.5°	4988.4	4953.1	4844.2	4847.3	5114.2	5172.5	5775.3	5399.5	4543.6	4437.7	5327.4
60°	5560.6	5459.3	5402.6	5428.6	5743.1	5799.9	6299.9	5640.3	4612.6	4531.3	5278.3
62.5°	6192.5	6074.4	6013.1	6146.5	6605.2	6614.4	6698.8	5853.5	4569.6	4555.8	4962.3
65°	6953.4	6836.8	6787.7	7056.2	7600.7	7567.0	7258.6	5944.0	4433.1	4308.9	4132.5
67.5°	7711.2	7640.6	7539.4	7967.3	8645.3	8645.3	7840.0	5910.3	4075.7	3459.1	2702.8
70°	8070.1	8119.2	8280.3	8952.1	9671.5	9597.9	8413.7	5522.2	3034.1	1857.6	1063.0
72°	7830.8	7780.2	8195.9	9274.2	10303.5	10182.3	8317.1	4390.2	1753.3	814.5	369.7
72.5°	7419.7	7467.3	8039.4	9229.8	10185.4	10285.1	8080.8	4049.6	1441.9	648.9	279.2
75°	4549.7	4631.0	6000.8	7836.9	8875.4	8763.4	6250.8	1929.7	553.8	276.1	99.7
77.5°	1661.3	1728.8	2911.4	4931.6	6312.2	6241.6	3617.0	685.7	300.7	205.5	50.6
80°	432.6	467.9	989.4	2274.8	3712.2	3716.8	1514.0	274.6	204.0	168.7	30.7
82.5°	85.9	95.1	303.7	885.1	1734.9	1711.9	478.6	147.3	153.4	138.1	21.5
85°	10.7	13.8	64.4	300.7	561.4	503.1	118.1	73.6	113.5	107.4	13.8
87.5°	1.5	1.5	15.3	69.0	118.1	115.0	24.5	23.0	50.6	66.0	7.7
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°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1569.2	1575.4	1596.8	1615.2	1636.7	1642.9	1633.7	1649.0	1627.5	1639.8	1642.9
5°	1572.3	1607.6	1647.5	1673.5	1667.4	1652.1	1639.8	1598.4	1569.2	1558.5	1581.5
7.5°	1593.8	1633.7	1676.6	1676.6	1642.9	1563.1	1486.4	1412.8	1351.4	1320.7	1346.8
10°	1621.4	1662.8	1707.3	1649.0	1523.2	1377.5	1268.6	1130.5	1036.9	987.9	992.5
12.5°	1658.2	1716.5	1731.8	1596.8	1388.2	1171.9	974.1	782.3	693.3	622.8	624.3
15°	1705.8	1762.5	1716.5	1483.3	1216.4	897.4	659.6	477.1	406.5	369.7	369.7
17.5°	1768.6	1811.6	1711.9	1379.0	984.8	613.6	405.0	322.1	306.8	300.7	300.7
20°	1842.3	1874.5	1667.4	1216.4	731.7	394.2	297.6	288.4	289.9	286.8	286.8
22.5°	1925.1	1935.8	1616.8	1027.7	495.5	291.5	277.6	279.2	280.7	277.6	279.2
25°	2012.5	1983.4	1543.2	806.9	329.8	265.4	268.4	271.5	273.0	274.6	274.6
27.5°	2110.7	2052.4	1440.4	590.6	257.7	250.0	259.2	268.4	270.0	270.0	268.4
30°	2254.9	2158.3	1340.7	400.4	227.0	233.2	248.5	259.2	266.9	266.9	265.4
32.5°	2437.4	2268.7	1201.1	273.0	210.2	213.2	225.5	247.0	263.8	265.4	260.8
35°	2690.5	2402.2	1055.4	217.8	197.9	199.4	207.1	224.0	253.1	262.3	260.8
37.5°	2957.5	2554.0	874.4	196.3	188.7	187.1	191.7	205.5	231.6	254.6	256.2
40°	3241.2	2713.6	684.1	185.6	181.0	177.9	179.5	185.6	205.5	234.7	240.8
42.5°	3508.1	2857.7	513.9	174.9	173.3	170.3	170.3	171.8	182.5	202.5	205.5
45°	3796.5	2975.9	391.2	167.2	162.6	164.1	158.0	154.9	162.6	164.1	162.6
47.5°	4066.5	3094.0	312.9	158.0	153.4	153.4	145.7	139.6	139.6	125.8	124.2
50°	4319.6	3158.4	250.0	145.7	144.2	142.7	131.9	121.2	112.0	95.1	92.0
52.5°	4529.7	3155.3	193.3	130.4	135.0	130.4	113.5	98.2	84.4	69.0	66.0
55°	4592.6	3008.1	145.7	107.4	115.0	108.9	90.5	76.7	61.4	49.1	47.6
57.5°	4539.0	2784.1	110.4	82.8	89.0	82.8	69.0	56.8	43.0	33.7	30.7
60°	4359.5	2521.8	85.9	64.4	67.5	62.9	52.2	43.0	30.7	21.5	18.4
62.5°	4018.9	2193.5	66.0	50.6	49.1	49.1	39.9	32.2	21.5	12.3	10.7
65°	3298.0	1710.4	50.6	35.3	35.3	35.3	30.7	23.0	13.8	6.1	3.1
67.5°	2070.8	995.5	41.4	27.6	26.1	26.1	21.5	15.3	7.7	1.5	0.0
70°	779.2	365.1	32.2	21.5	19.9	19.9	15.3	9.2	4.6	0.0	0.0
72°	268.4	139.6	26.1	15.3	15.3	13.8	10.7	7.7	3.1	0.0	0.0
72.5°	220.9	112.0	24.5	15.3	13.8	13.8	10.7	7.7	3.1	0.0	0.0
75°	79.8	46.0	16.9	10.7	9.2	9.2	7.7	4.6	1.5	0.0	0.0
77.5°	39.9	29.1	13.8	9.2	7.7	4.6	4.6	3.1	1.5	0.0	0.0
80°	24.5	18.4	7.7	6.1	4.6	3.1	1.5	1.5	0.0	0.0	0.0
82.5°	16.9	10.7	4.6	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.7	4.6	3.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	3.1	1.5	0.0	0.0	0.0	0.0	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)