

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: P483300

Luminaire Tested: **IFLD-S-SA2B-760-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-760-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

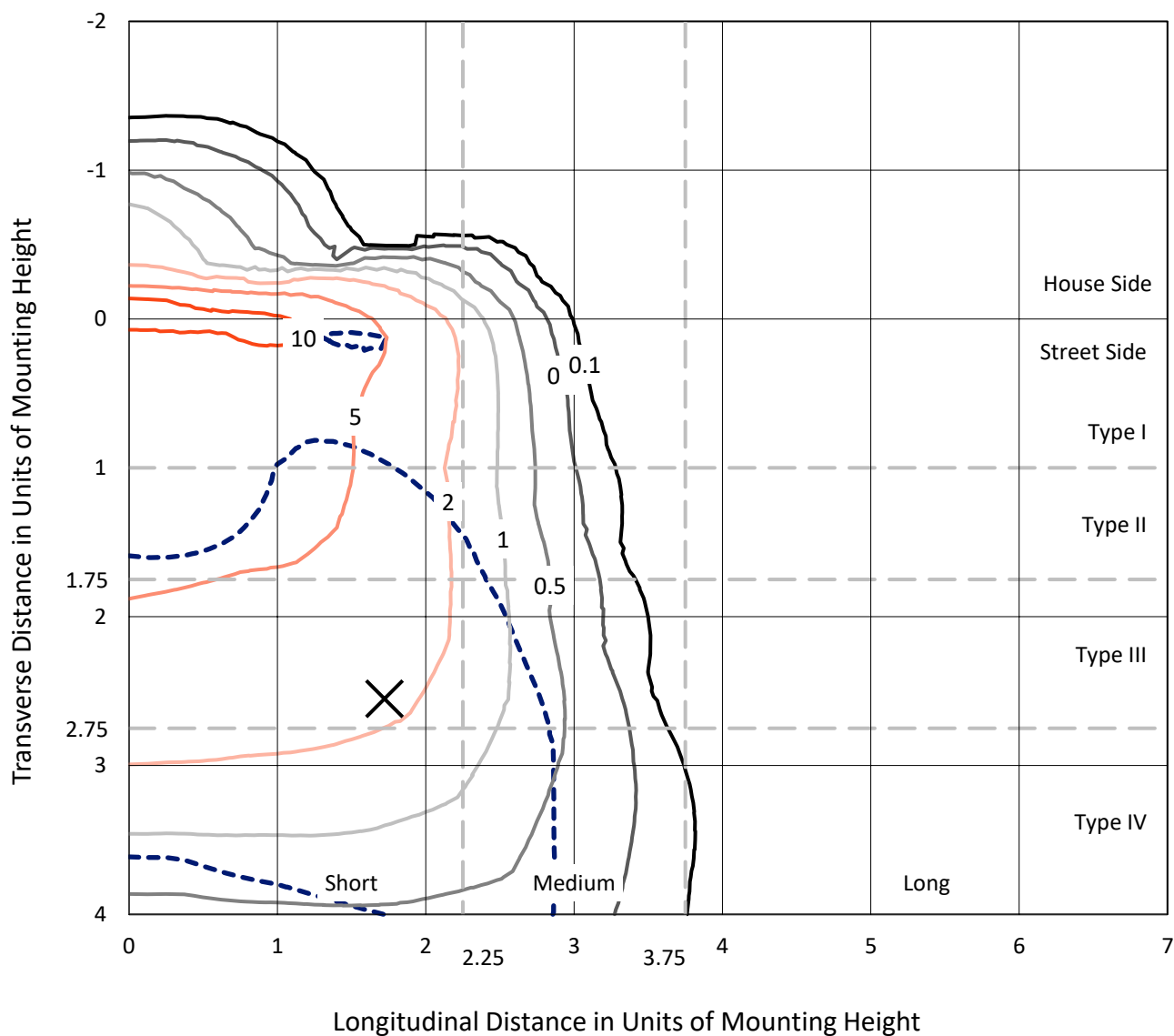
Lumens per Lamp: N/A
Luminaire Lumens: 8445.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

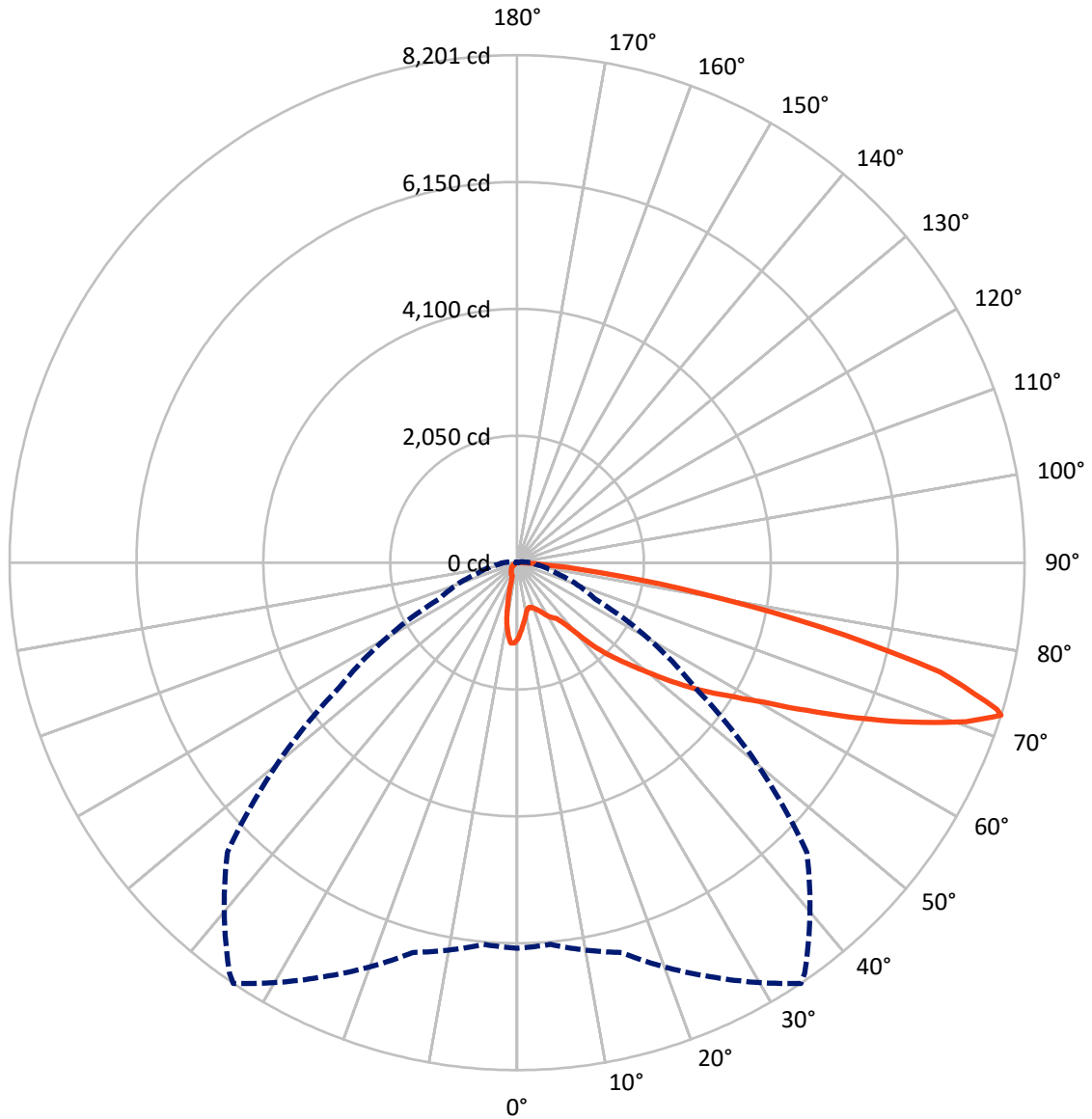
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 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
House Side	Lumens	864.6	0.0	864.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7580.5	0.0	7580.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	8445.1	0.0	8445.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.3
10°-20°	242.8	2.9
20°-30°	366.5	4.3
30°-40°	594.8	7.0
40°-50°	1118.5	13.2
50°-60°	1828.7	21.7
60°-70°	2431.0	28.8
70°-80°	1628.0	19.3
80°-90°	127.6	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°	8445.1	100.0
0°-180°	8445.1	100.0



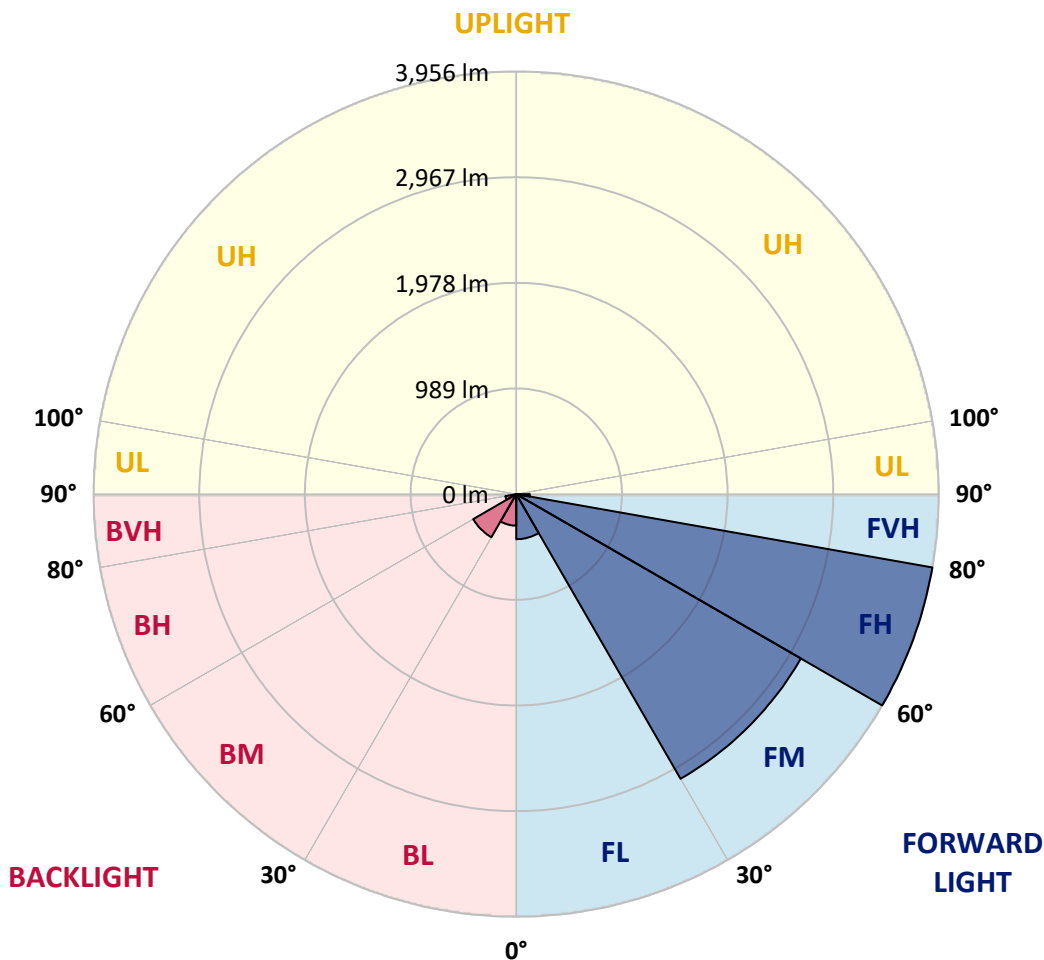
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.6	5.0			
FM (30°-60°)	3076.5	36.4			
FH (60°-80°)	3955.6	46.8			G2/5000
FVH (80°-90°)	126.8	1.5			G2/225
BL (0°-30°)	295.0	3.5	B1/500		
BM (30°-60°)	465.4	5.5	B1/1000		
BH (60°-80°)	103.4	1.2	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1092.7	1090.2	1097.6	1109.8	1122.0	1117.1	1140.3	1164.7	1181.8	1205.0	1233.1
5°	954.7	960.8	968.2	992.6	1008.4	1012.1	1054.8	1086.6	1139.1	1192.8	1242.9
7.5°	829.0	836.3	851.0	877.8	910.8	919.3	962.1	1025.5	1093.9	1164.7	1246.5
10°	737.4	744.7	760.6	777.7	821.6	821.6	880.3	968.2	1057.3	1140.3	1247.7
12.5°	717.9	721.5	720.3	733.7	761.8	767.9	825.3	921.8	1025.5	1131.8	1267.3
15°	741.1	743.5	731.3	724.0	748.4	754.5	808.2	893.7	1004.8	1136.6	1299.0
17.5°	787.5	778.9	754.5	743.5	764.3	767.9	818.0	892.5	1002.3	1150.1	1335.6
20°	814.3	824.1	781.4	760.6	789.9	794.8	848.5	912.0	1014.5	1173.3	1386.9
22.5°	861.9	866.8	809.4	796.0	824.1	824.1	885.1	951.1	1043.8	1211.1	1448.0
25°	929.1	923.0	855.8	842.4	869.3	880.3	941.3	1013.3	1089.0	1246.5	1504.1
27.5°	981.6	985.2	930.3	894.9	940.1	947.4	1013.3	1080.5	1123.2	1275.8	1572.5
30°	1059.7	1052.4	993.8	953.5	1009.7	1010.9	1074.4	1144.0	1189.1	1328.3	1675.0
32.5°	1152.5	1137.9	1070.7	1013.3	1058.5	1069.5	1134.2	1235.5	1291.7	1427.2	1833.8
35°	1349.1	1313.7	1203.8	1114.7	1118.3	1123.2	1223.3	1368.6	1433.3	1553.0	2046.2
37.5°	1636.0	1621.3	1496.8	1327.1	1262.4	1247.7	1360.1	1544.4	1625.0	1719.0	2322.1
40°	1920.4	1899.7	1783.7	1655.5	1538.3	1509.0	1565.2	1777.6	1850.8	1949.7	2605.3
42.5°	2236.6	2200.0	2063.3	1959.5	1886.3	1854.5	1832.5	2070.6	2153.6	2220.8	2882.5
45°	2556.5	2496.7	2298.9	2219.6	2180.5	2163.4	2161.0	2439.3	2489.4	2502.8	3190.1
47.5°	2837.3	2772.6	2593.1	2504.0	2474.7	2469.8	2606.6	2864.2	2825.1	2789.7	3533.2
50°	3053.4	3011.9	2882.5	2850.7	2828.8	2820.2	3140.1	3301.2	3120.6	3058.3	3834.8
52.5°	3387.9	3295.1	3148.6	3159.6	3236.5	3237.8	3680.9	3716.3	3366.0	3242.6	4119.2
55°	3655.3	3594.3	3474.6	3458.7	3661.4	3683.4	4165.6	4031.3	3502.7	3418.5	4224.2
57.5°	3970.3	3942.2	3855.5	3858.0	4070.4	4116.8	4596.6	4297.5	3616.2	3532.0	4240.1
60°	4425.7	4345.1	4299.9	4320.7	4571.0	4616.1	5014.1	4489.2	3671.2	3606.5	4201.0
62.5°	4928.7	4834.7	4785.8	4892.1	5257.1	5264.4	5331.6	4658.9	3637.0	3626.0	3949.5
65°	5534.2	5441.4	5402.4	5616.0	6049.4	6022.6	5777.2	4730.9	3528.3	3429.4	3289.0
67.5°	6137.3	6081.2	6000.6	6341.2	6880.9	6880.9	6239.9	4704.0	3243.9	2753.1	2151.2
70°	6423.0	6462.1	6590.3	7125.0	7697.6	7639.0	6696.5	4395.2	2414.9	1478.5	846.1
72°	6232.6	6192.3	6523.1	7381.4	8200.6	8104.2	6619.6	3494.1	1395.5	648.3	294.2
72.5°	5905.4	5943.2	6398.6	7346.0	8106.6	8186.0	6431.6	3223.1	1147.6	516.4	222.2
75°	3621.1	3685.8	4776.1	6237.5	7064.0	6974.9	4975.1	1535.9	440.7	219.8	79.4
77.5°	1322.2	1375.9	2317.2	3925.1	5023.9	4967.7	2878.8	545.7	239.3	163.6	40.3
80°	344.3	372.4	787.5	1810.6	2954.5	2958.2	1205.0	218.5	162.4	134.3	24.4
82.5°	68.4	75.7	241.7	704.4	1380.8	1362.5	380.9	117.2	122.1	109.9	17.1
85°	8.5	11.0	51.3	239.3	446.8	400.4	94.0	58.6	90.3	85.5	11.0
87.5°	1.2	1.2	12.2	54.9	94.0	91.6	19.5	18.3	40.3	52.5	6.1
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°	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1249.0	1253.8	1270.9	1285.6	1302.7	1307.6	1300.2	1312.4	1295.3	1305.1	1307.6
5°	1251.4	1279.5	1311.2	1332.0	1327.1	1314.9	1305.1	1272.2	1249.0	1240.4	1258.7
7.5°	1268.5	1300.2	1334.4	1334.4	1307.6	1244.1	1183.0	1124.4	1075.6	1051.2	1071.9
10°	1290.5	1323.4	1358.8	1312.4	1212.3	1096.3	1009.7	899.8	825.3	786.2	789.9
12.5°	1319.8	1366.2	1378.4	1270.9	1104.9	932.7	775.3	622.6	551.8	495.7	496.9
15°	1357.6	1402.8	1366.2	1180.6	968.2	714.2	525.0	379.7	323.5	294.2	294.2
17.5°	1407.7	1441.9	1362.5	1097.6	783.8	488.4	322.3	256.4	244.2	239.3	239.3
20°	1466.3	1491.9	1327.1	968.2	582.4	313.8	236.8	229.5	230.7	228.3	228.3
22.5°	1532.2	1540.7	1286.8	818.0	394.3	232.0	221.0	222.2	223.4	221.0	222.2
25°	1601.8	1578.6	1228.2	642.2	262.5	211.2	213.7	216.1	217.3	218.5	218.5
27.5°	1679.9	1633.5	1146.4	470.0	205.1	199.0	206.3	213.7	214.9	214.9	213.7
30°	1794.7	1717.8	1067.0	318.6	180.7	185.6	197.8	206.3	212.4	212.4	211.2
32.5°	1940.0	1805.7	955.9	217.3	167.3	169.7	179.5	196.6	210.0	211.2	207.5
35°	2141.4	1911.9	840.0	173.4	157.5	158.7	164.8	178.2	201.4	208.8	207.5
37.5°	2353.8	2032.8	695.9	156.3	150.2	148.9	152.6	163.6	184.4	202.7	203.9
40°	2579.7	2159.7	544.5	147.7	144.1	141.6	142.8	147.7	163.6	186.8	191.7
42.5°	2792.1	2274.5	409.0	139.2	138.0	135.5	135.5	136.7	145.3	161.2	163.6
45°	3021.7	2368.5	311.3	133.1	129.4	130.6	125.8	123.3	129.4	130.6	129.4
47.5°	3236.5	2462.5	249.1	125.8	122.1	122.1	116.0	111.1	111.1	100.1	98.9
50°	3438.0	2513.8	199.0	116.0	114.8	113.5	105.0	96.4	89.1	75.7	73.3
52.5°	3605.2	2511.3	153.8	103.8	107.4	103.8	90.3	78.1	67.1	54.9	52.5
55°	3655.3	2394.1	116.0	85.5	91.6	86.7	72.0	61.0	48.8	39.1	37.8
57.5°	3612.6	2215.9	87.9	65.9	70.8	65.9	54.9	45.2	34.2	26.9	24.4
60°	3469.7	2007.1	68.4	51.3	53.7	50.1	41.5	34.2	24.4	17.1	14.7
62.5°	3198.7	1745.9	52.5	40.3	39.1	39.1	31.7	25.6	17.1	9.8	8.5
65°	2624.9	1361.3	40.3	28.1	28.1	28.1	24.4	18.3	11.0	4.9	2.4
67.5°	1648.2	792.3	33.0	22.0	20.8	20.8	17.1	12.2	6.1	1.2	0.0
70°	620.2	290.6	25.6	17.1	15.9	15.9	12.2	7.3	3.7	0.0	0.0
72°	213.7	111.1	20.8	12.2	12.2	11.0	8.5	6.1	2.4	0.0	0.0
72.5°	175.8	89.1	19.5	12.2	11.0	11.0	8.5	6.1	2.4	0.0	0.0
75°	63.5	36.6	13.4	8.5	7.3	7.3	6.1	3.7	1.2	0.0	0.0
77.5°	31.7	23.2	11.0	7.3	6.1	3.7	3.7	2.4	1.2	0.0	0.0
80°	19.5	14.7	6.1	4.9	3.7	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	13.4	8.5	3.7	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.7	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.4	1.2	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)