

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: P483731

Luminaire Tested: **IFLD-S-SA2D-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

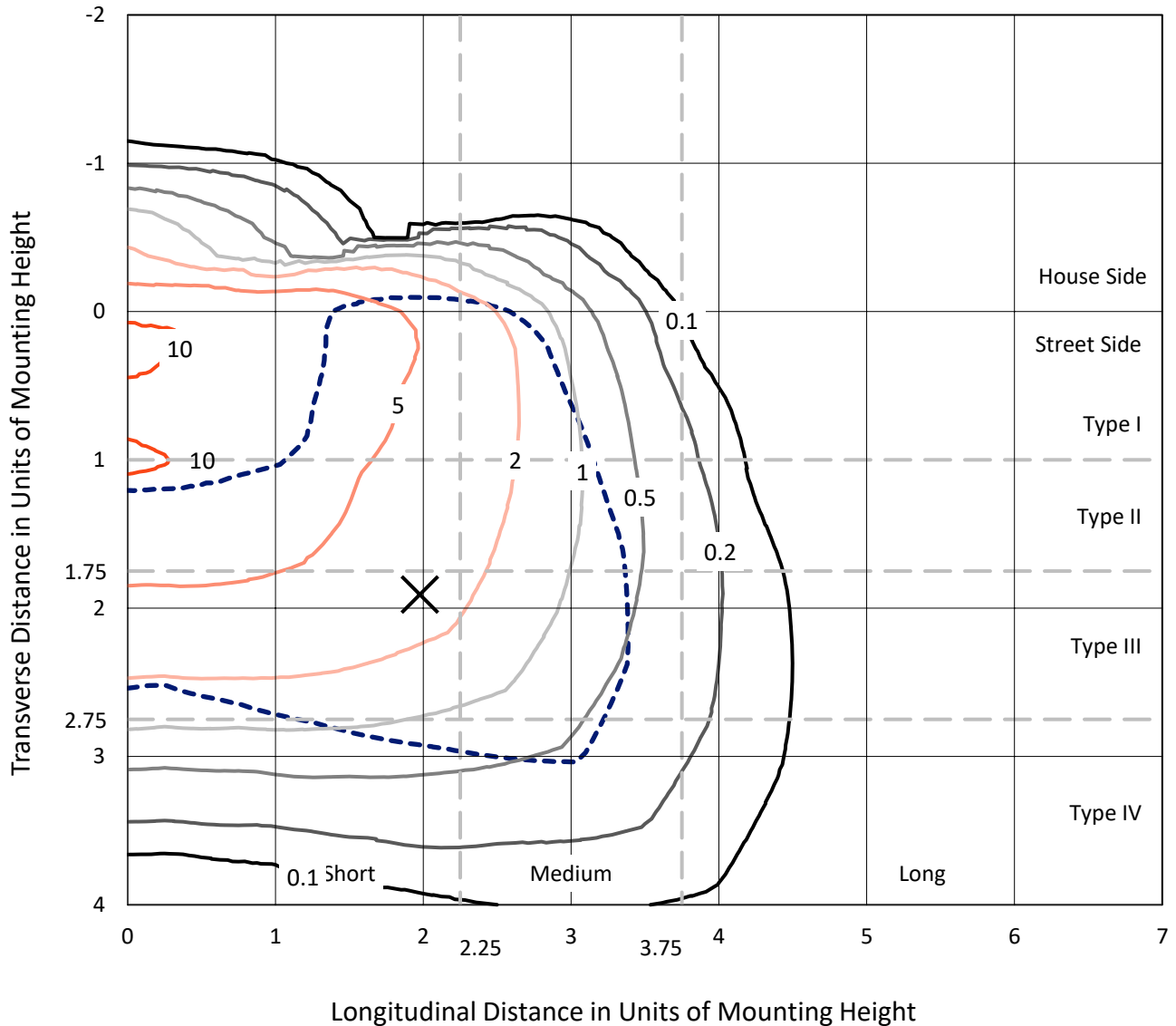
Lumens per Lamp: N/A
Luminaire Lumens: 8482.6 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P483731
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

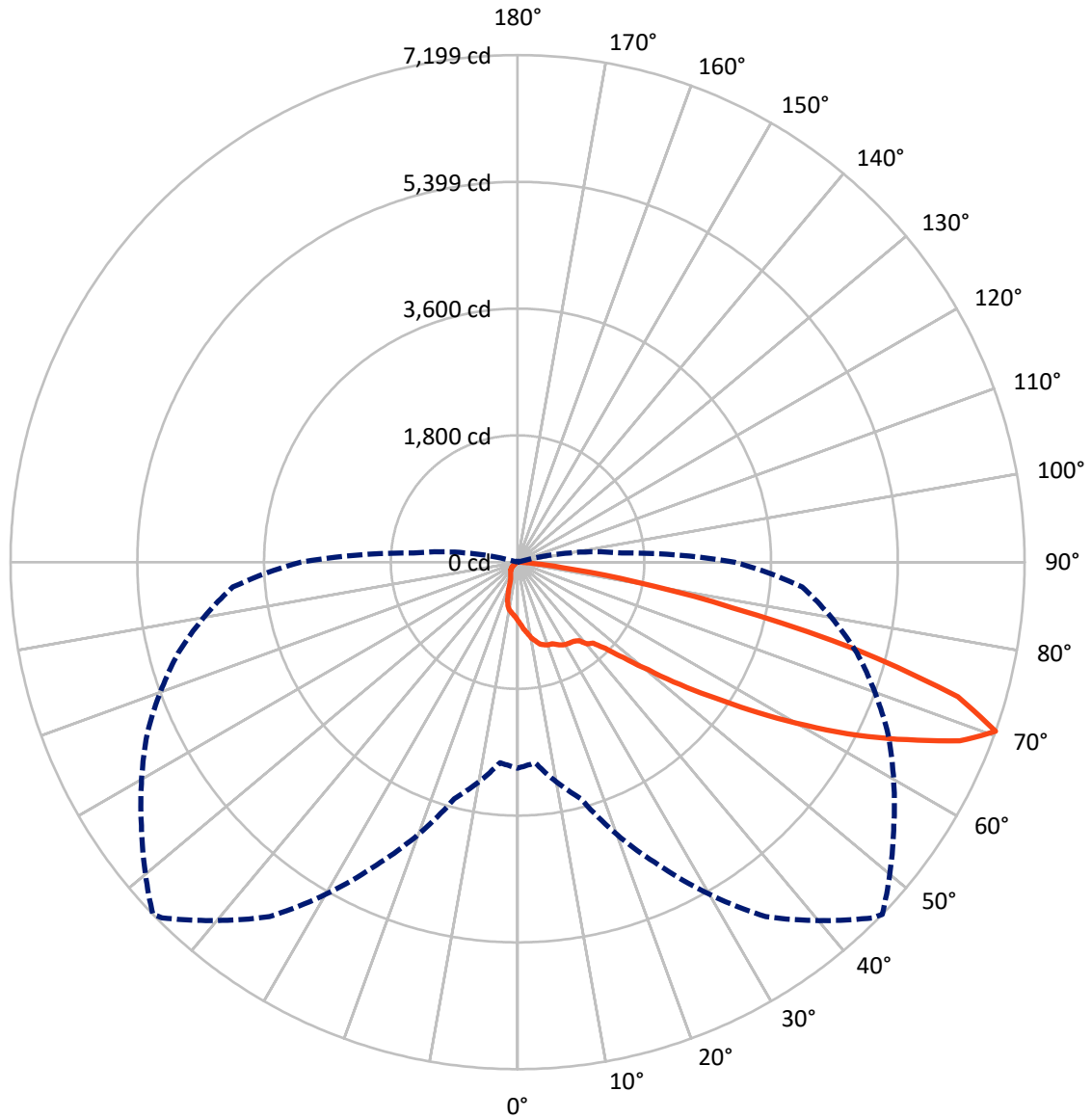
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P483731
CATALOG NUMBER: IFLD-S-SA2D-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.0	0.0	844.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7638.6	0.0	7638.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	8482.6	0.0	8482.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.0
10°-20°	250.8	3.0
20°-30°	401.7	4.7
30°-40°	573.3	6.8
40°-50°	989.9	11.7
50°-60°	1895.3	22.3
60°-70°	2806.7	33.1
70°-80°	1390.1	16.4
80°-90°	91.9	1.1
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°	8482.6	100.0
0°-180°	8482.6	100.0

Coefficient of Utilization



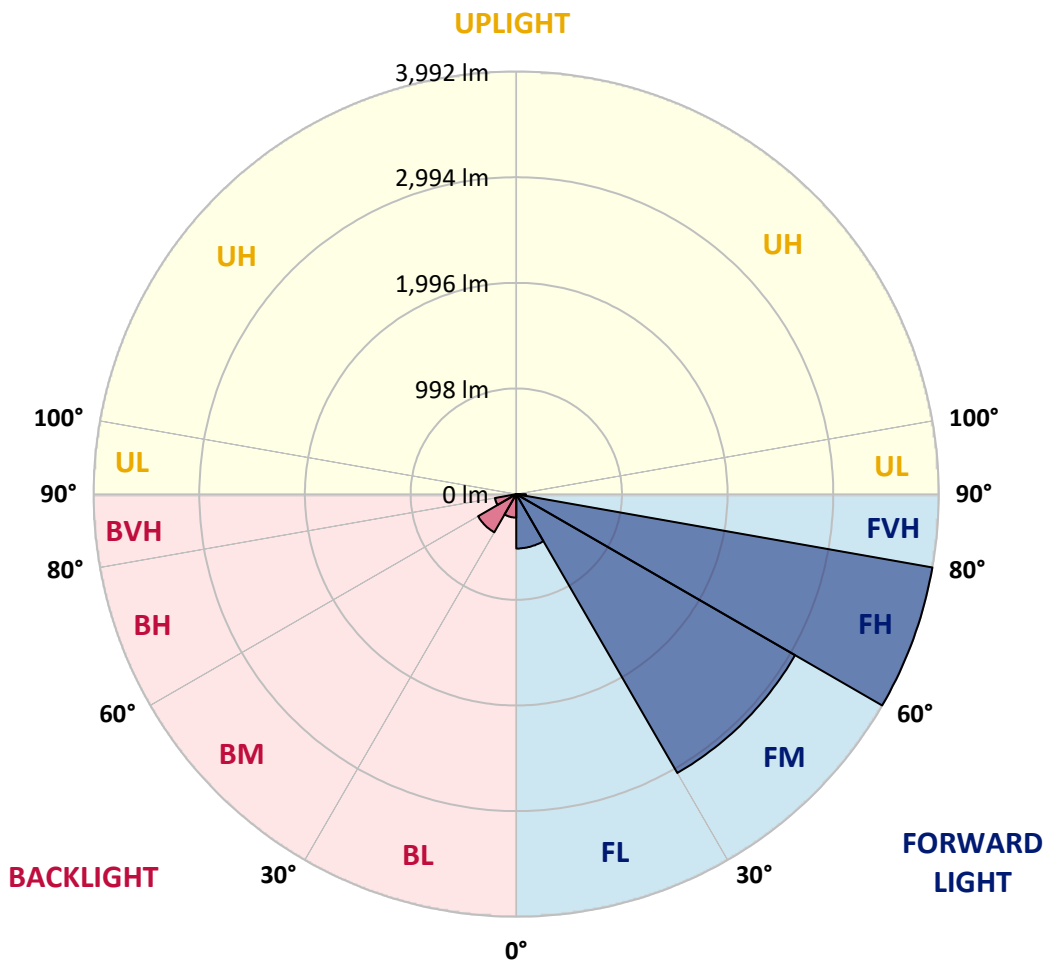
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.7	6.1			
FM (30°-60°)	3041.8	35.9			
FH (60°-80°)	3992.4	47.1			G2/5000
FVH (80°-90°)	90.7	1.1			G1/100
BL (0°-30°)	221.7	2.6	B1/500		
BM (30°-60°)	416.7	4.9	B1/1000		
BH (60°-80°)	204.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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





REPORT NUMBER: P483731

CATALOG NUMBER: IFLD-S-SA2D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7
2.5°	929.2	923.1	913.3	909.7	899.9	895.0	887.7	884.0	870.6	857.1	848.6
5°	1042.7	1028.1	1033.0	1018.3	986.6	960.9	959.7	931.6	901.1	876.7	843.7
7.5°	1157.5	1145.3	1127.0	1106.2	1070.8	1033.0	1022.0	995.1	952.4	909.7	865.7
10°	1244.2	1235.7	1219.8	1190.5	1141.6	1098.9	1100.1	1055.0	1009.8	960.9	901.1
12.5°	1297.9	1301.6	1278.4	1249.1	1206.4	1152.6	1151.4	1120.9	1069.6	1018.3	947.5
15°	1351.7	1365.1	1329.7	1295.5	1240.5	1201.5	1208.8	1172.2	1122.1	1063.5	985.4
17.5°	1360.2	1363.9	1356.5	1306.5	1266.2	1233.2	1234.4	1210.0	1172.2	1108.7	1041.5
20°	1345.6	1343.1	1334.6	1297.9	1271.1	1251.5	1252.8	1246.7	1225.9	1174.6	1083.0
22.5°	1302.8	1302.8	1291.8	1267.4	1255.2	1273.5	1258.9	1282.1	1260.1	1229.6	1153.9
25°	1268.6	1282.1	1276.0	1260.1	1265.0	1289.4	1296.7	1318.7	1315.0	1277.2	1202.7
27.5°	1305.3	1289.4	1293.0	1274.7	1293.0	1329.7	1333.3	1349.2	1348.0	1317.5	1246.7
30°	1329.7	1344.3	1316.2	1276.0	1295.5	1357.8	1355.3	1376.1	1385.8	1349.2	1288.2
32.5°	1407.8	1395.6	1372.4	1318.7	1321.1	1356.5	1367.5	1394.4	1400.5	1378.5	1328.5
35°	1567.8	1549.5	1448.1	1367.5	1355.3	1372.4	1379.7	1432.2	1443.2	1418.8	1371.2
37.5°	1814.4	1772.9	1650.8	1472.5	1417.6	1413.9	1413.9	1483.5	1525.0	1468.9	1434.7
40°	2167.3	2108.7	1976.8	1666.7	1499.4	1514.1	1528.7	1566.6	1561.7	1525.0	1517.7
42.5°	2616.6	2571.4	2428.6	1992.7	1655.7	1582.4	1570.2	1621.5	1698.4	1683.8	1678.9
45°	2991.5	2993.9	2902.3	2439.6	1925.5	1739.9	1748.5	1787.6	1917.0	1906.0	1904.8
47.5°	3265.0	3230.8	3217.4	2870.6	2318.7	2039.1	2026.9	2053.7	2222.2	2291.8	2323.6
50°	3514.1	3490.9	3459.1	3289.4	2791.2	2413.9	2401.7	2404.2	2661.8	2759.5	2837.6
52.5°	3823.0	3852.3	3747.3	3643.5	3403.0	2901.1	2887.7	2840.1	3160.0	3294.3	3387.1
55°	4203.9	4149.0	4030.6	4084.3	3987.8	3427.4	3403.0	3346.8	3727.7	3783.9	3881.6
57.5°	4288.2	4246.7	4368.8	4559.2	4652.0	4045.2	4035.4	3934.1	4205.2	4153.9	4429.8
60°	4498.2	4509.2	4678.9	5057.4	5218.6	4758.3	4710.7	4532.4	4667.9	4677.7	4971.9
62.5°	4714.3	4688.7	5068.4	5432.3	5680.1	5433.5	5417.6	5063.5	5217.4	5092.8	5482.3
65°	4555.6	4594.7	5138.0	5747.3	6278.4	6094.1	6080.6	5575.1	5659.4	5504.3	5689.9
67.5°	3991.5	3912.1	4672.8	5603.2	6586.1	6786.4	6771.7	6133.1	5908.5	5501.9	5258.9
70°	2925.5	2857.2	3477.4	4744.8	6145.3	7140.5	7199.1	6521.4	5807.1	4989.0	4057.4
72.5°	1433.5	1434.7	1948.7	3217.4	4862.1	6508.0	6537.3	5979.3	4989.0	3677.7	2297.9
75°	423.7	428.6	721.6	1577.5	3142.9	4942.6	4975.6	4538.5	3457.9	1899.9	783.9
77.5°	155.1	155.1	239.3	592.2	1567.8	3119.7	3117.2	2786.3	1750.9	643.5	183.2
80°	80.6	84.2	124.5	241.8	678.9	1625.2	1686.2	1363.9	665.5	271.1	53.7
82.5°	33.0	36.6	68.4	124.5	326.0	570.2	623.9	534.8	289.4	189.3	24.4
85°	9.8	11.0	33.0	69.6	128.2	142.9	158.7	179.5	181.9	146.5	11.0
87.5°	1.2	1.2	13.4	23.2	28.1	30.5	35.4	35.4	92.8	102.6	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



REPORT NUMBER: P483731

CATALOG NUMBER: IFLD-S-SA2D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7
2.5°	838.8	832.7	823.0	801.0	796.1	780.2	779.0	764.4	769.2	759.5	755.8
5°	832.7	819.3	792.4	775.3	758.2	747.3	739.9	733.8	732.6	727.7	725.3
7.5°	843.7	825.4	783.9	757.0	727.7	718.0	702.1	700.9	692.3	683.8	683.8
10°	880.3	847.4	802.2	757.0	719.2	687.4	650.8	623.9	614.2	592.2	594.6
12.5°	909.7	880.3	814.4	768.0	710.6	638.6	558.0	495.7	466.4	438.3	449.3
15°	951.2	908.4	837.6	770.5	677.7	553.1	421.2	351.7	324.8	318.7	317.5
17.5°	996.3	951.2	866.9	764.4	610.5	427.4	310.1	269.8	274.7	282.1	280.8
20°	1046.4	991.5	888.9	743.6	504.3	310.1	254.0	252.7	260.1	271.1	273.5
22.5°	1098.9	1051.3	915.8	681.3	376.1	249.1	244.2	244.2	249.1	262.5	260.1
25°	1157.5	1094.0	929.2	584.9	269.8	229.5	232.0	236.9	239.3	250.3	251.5
27.5°	1202.7	1141.6	932.9	468.9	219.8	212.5	218.6	224.7	228.3	236.9	240.5
30°	1244.2	1201.5	913.3	349.2	201.5	197.8	200.2	208.8	216.1	223.4	223.4
32.5°	1296.7	1235.7	868.1	247.9	190.5	184.4	183.2	186.8	195.4	203.9	203.9
35°	1350.4	1293.0	796.1	199.0	180.7	172.2	167.3	163.6	167.3	173.4	178.3
37.5°	1428.6	1379.7	705.7	183.2	173.4	161.2	151.4	142.9	136.8	135.5	139.2
40°	1539.7	1477.4	589.7	172.2	164.8	150.2	135.5	120.9	107.4	98.9	100.1
42.5°	1708.2	1621.5	464.0	166.1	158.7	138.0	117.2	96.5	79.4	70.8	70.8
45°	1948.7	1812.0	340.7	160.0	151.4	123.3	96.5	72.0	54.9	50.1	51.3
47.5°	2311.4	2041.5	244.2	150.2	141.6	107.4	75.7	51.3	40.3	37.9	39.1
50°	2785.1	2313.8	190.5	139.2	129.4	90.4	56.2	37.9	31.7	30.5	31.7
52.5°	3282.1	2588.5	167.3	129.4	111.1	72.0	41.5	30.5	26.9	25.6	26.9
55°	3707.0	2765.6	145.3	114.8	89.1	53.7	33.0	26.9	23.2	19.5	19.5
57.5°	4136.8	2854.7	114.8	95.2	65.9	40.3	28.1	23.2	19.5	15.9	14.7
60°	4486.0	2918.2	81.8	70.8	46.4	31.7	24.4	20.8	15.9	12.2	11.0
62.5°	4715.5	2736.3	59.8	53.7	34.2	26.9	20.8	17.1	12.2	8.5	8.5
65°	4602.0	2484.8	46.4	37.9	25.6	20.8	17.1	12.2	8.5	4.9	3.7
67.5°	4129.5	2024.4	37.9	28.1	19.5	15.9	13.4	9.8	4.9	1.2	1.2
70°	3080.6	1483.5	30.5	20.8	15.9	12.2	9.8	6.1	2.4	1.2	0.0
72.5°	1685.0	812.0	24.4	17.1	12.2	9.8	7.3	4.9	2.4	0.0	0.0
75°	556.8	216.1	18.3	12.2	7.3	6.1	4.9	3.7	1.2	0.0	0.0
77.5°	134.3	56.2	14.7	11.0	6.1	3.7	2.4	1.2	1.2	0.0	0.0
80°	41.5	23.2	11.0	7.3	4.9	3.7	1.2	0.0	0.0	0.0	0.0
82.5°	17.1	11.0	4.9	4.9	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.5	6.1	3.7	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	1.2	1.2	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)