

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: P483770

Luminaire Tested: **IFLD-S-SA2D-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483770
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-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

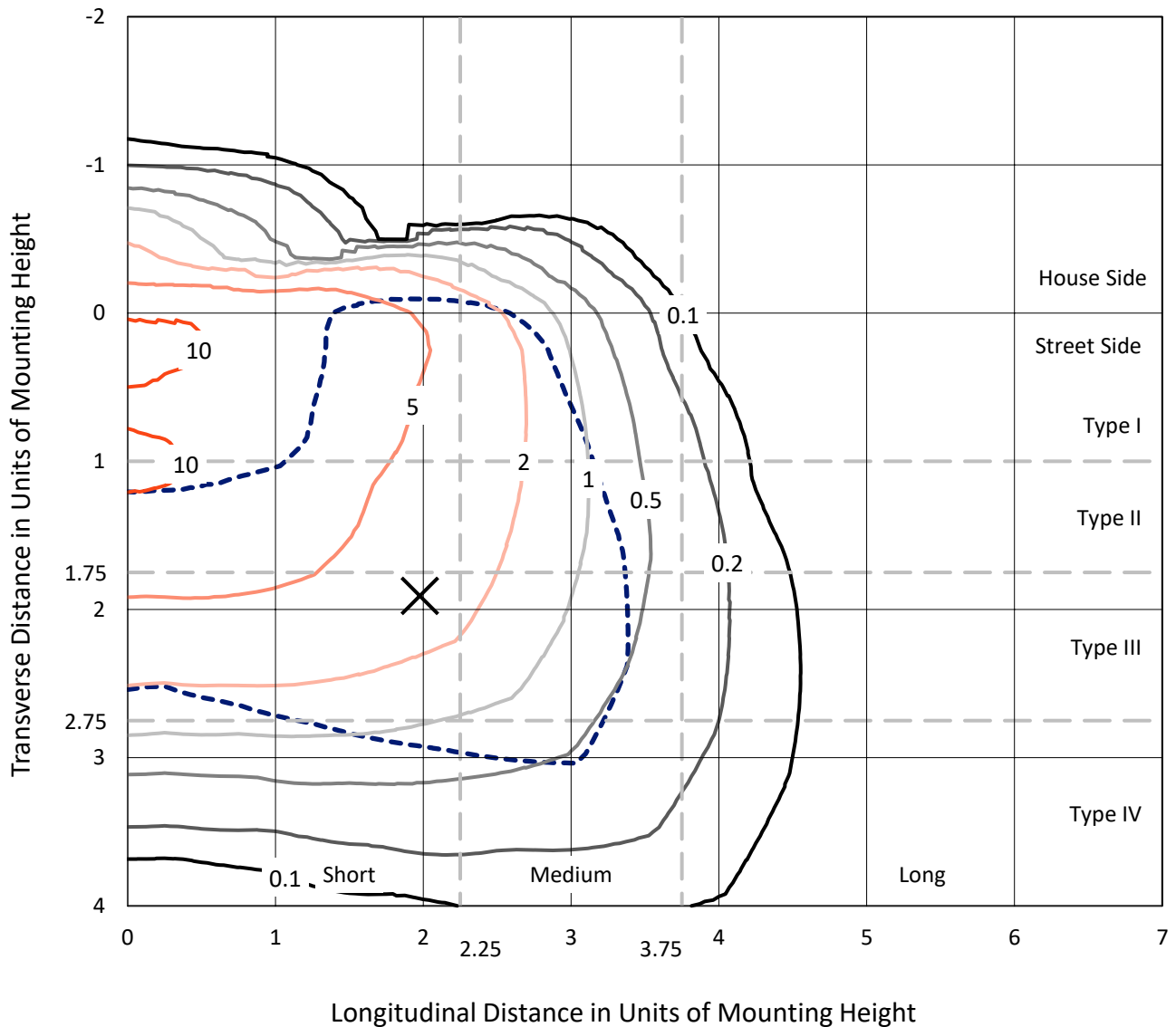
Lumens per Lamp: N/A
Luminaire Lumens: 9169.2 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P483770
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

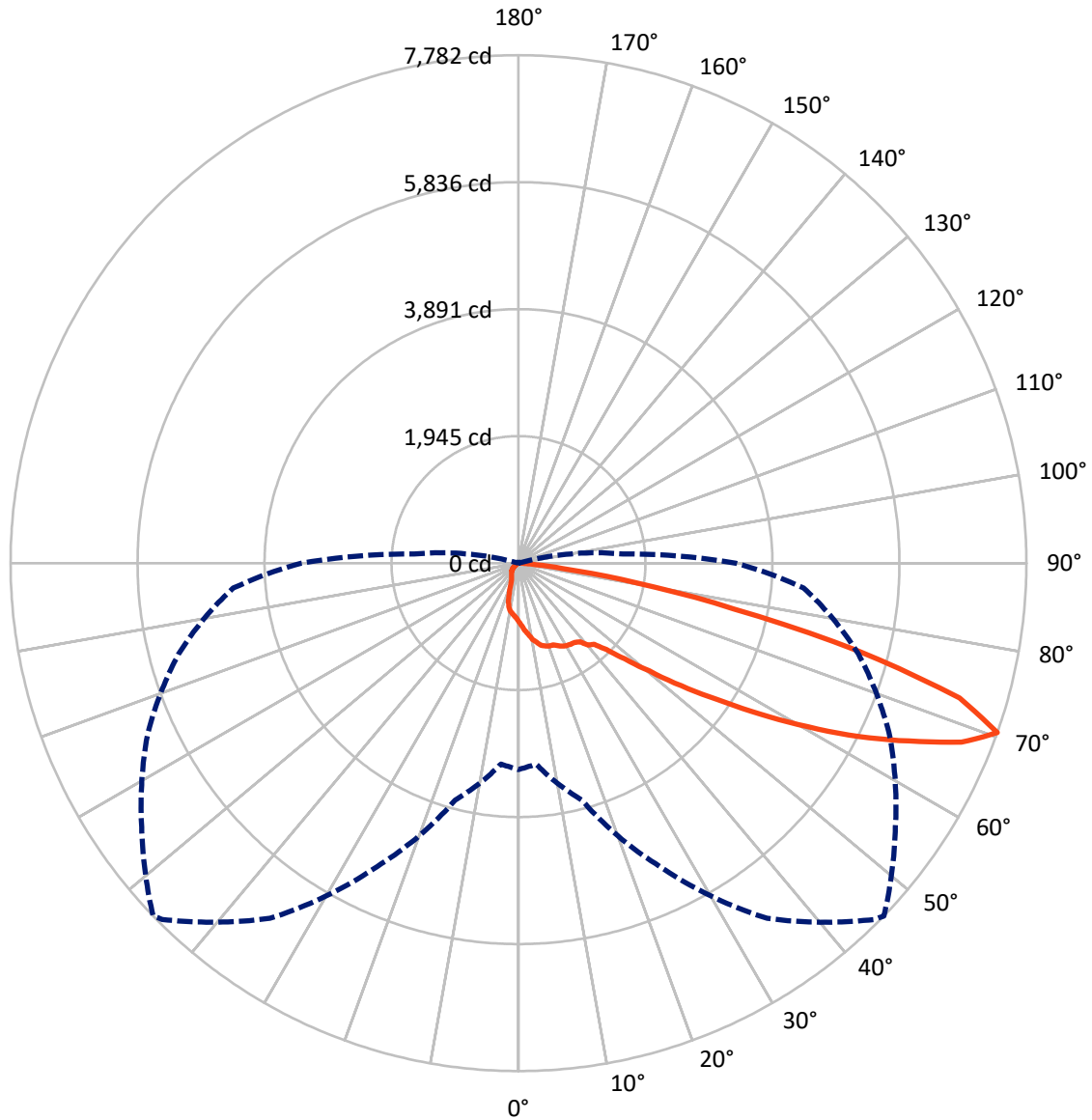
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P483770
CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483770
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.4	0.0	912.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	8256.9	0.0	8256.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	9169.2	0.0	9169.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.0
10°-20°	271.0	3.0
20°-30°	434.2	4.7
30°-40°	619.7	6.8
40°-50°	1070.1	11.7
50°-60°	2048.7	22.3
60°-70°	3033.8	33.1
70°-80°	1502.6	16.4
80°-90°	99.3	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°	9169.2	100.0
0°-180°	9169.2	100.0

Coefficient of Utilization



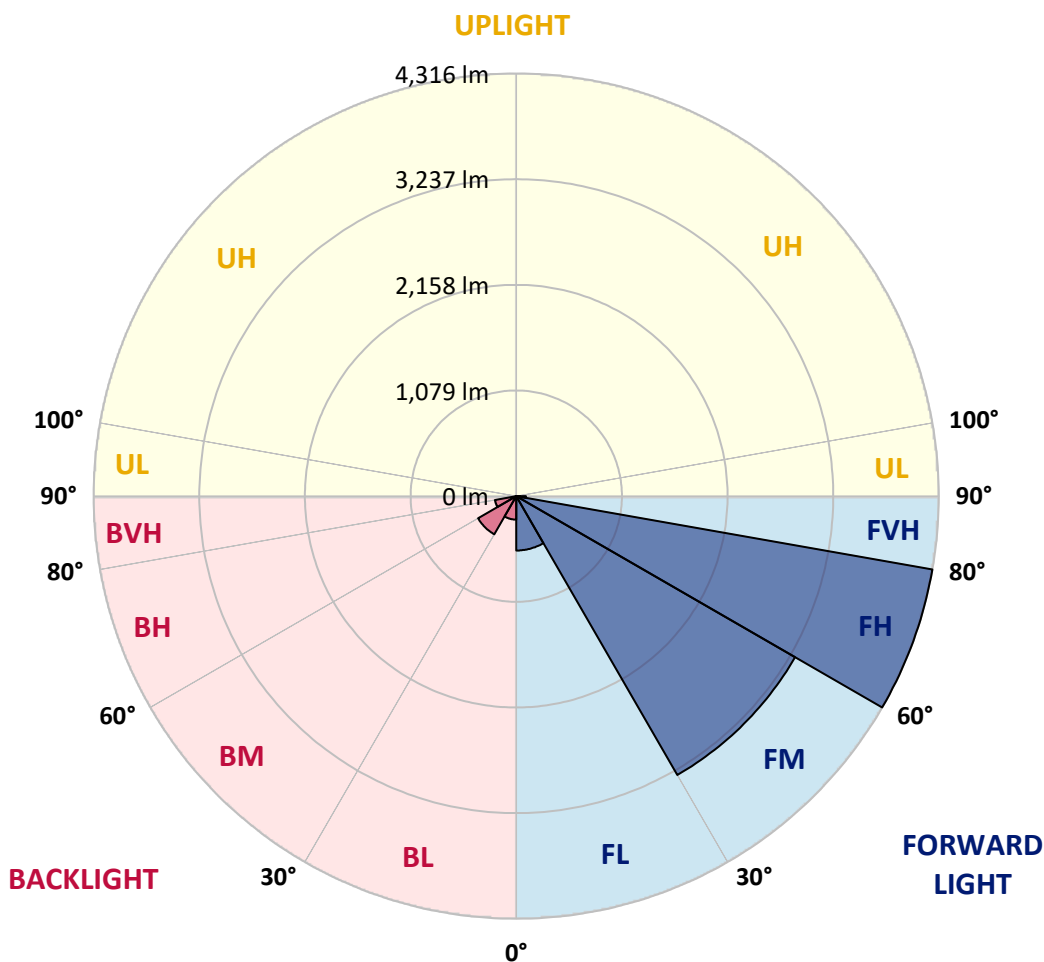
REPORT NUMBER: P483770
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.3	6.1			
FM (30°-60°)	3288.1	35.9			
FH (60°-80°)	4315.5	47.1			G2/5000
FVH (80°-90°)	98.0	1.1			G1/100
BL (0°-30°)	239.7	2.6	B1/500		
BM (30°-60°)	450.4	4.9	B1/1000		
BH (60°-80°)	221.0	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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: P483770

CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	1004.4	997.8	987.2	983.3	972.7	967.4	959.5	955.6	941.0	926.5	917.3
5°	1127.1	1111.3	1116.6	1100.7	1066.4	1038.7	1037.4	1007.0	974.0	947.6	912.0
7.5°	1251.2	1238.0	1218.2	1195.8	1157.5	1116.6	1104.7	1075.7	1029.5	983.3	935.8
10°	1344.9	1335.7	1318.5	1286.8	1234.0	1187.9	1189.2	1140.3	1091.5	1038.7	974.0
12.5°	1403.0	1406.9	1381.9	1350.2	1304.0	1245.9	1244.6	1211.6	1156.2	1100.7	1024.2
15°	1461.1	1475.6	1437.3	1400.3	1341.0	1298.7	1306.6	1267.0	1212.9	1149.6	1065.1
17.5°	1470.3	1474.3	1466.3	1412.2	1368.7	1333.0	1334.4	1308.0	1267.0	1198.4	1125.8
20°	1454.5	1451.8	1442.6	1403.0	1374.0	1352.8	1354.2	1347.6	1325.1	1269.7	1170.7
22.5°	1408.3	1408.3	1396.4	1370.0	1356.8	1376.6	1360.8	1385.8	1362.1	1329.1	1247.2
25°	1371.3	1385.8	1379.2	1362.1	1367.4	1393.8	1401.7	1425.4	1421.5	1380.6	1300.0
27.5°	1410.9	1393.8	1397.7	1377.9	1397.7	1437.3	1441.3	1458.4	1457.1	1424.1	1347.6
30°	1437.3	1453.1	1422.8	1379.2	1400.3	1467.7	1465.0	1487.5	1498.0	1458.4	1392.4
32.5°	1521.8	1508.6	1483.5	1425.4	1428.1	1466.3	1478.2	1507.3	1513.9	1490.1	1436.0
35°	1694.7	1674.9	1565.3	1478.2	1465.0	1483.5	1491.4	1548.2	1560.1	1533.7	1482.2
37.5°	1961.3	1916.4	1784.4	1591.7	1532.3	1528.4	1528.4	1603.6	1648.5	1587.8	1550.8
40°	2342.7	2279.4	2136.8	1801.6	1620.8	1636.6	1652.4	1693.4	1688.1	1648.5	1640.6
42.5°	2828.4	2779.6	2625.2	2154.0	1789.7	1710.5	1697.3	1752.7	1835.9	1820.1	1814.8
45°	3233.6	3236.2	3137.3	2637.0	2081.4	1880.8	1890.0	1932.2	2072.1	2060.3	2058.9
47.5°	3529.3	3492.3	3477.8	3102.9	2506.4	2204.1	2190.9	2220.0	2402.1	2477.3	2511.7
50°	3798.5	3773.4	3739.1	3555.6	3017.2	2609.3	2596.1	2598.8	2877.3	2982.8	3067.3
52.5°	4132.4	4164.1	4050.6	3938.4	3678.4	3135.9	3121.4	3069.9	3415.7	3560.9	3661.2
55°	4544.2	4484.8	4356.8	4414.9	4310.6	3704.8	3678.4	3617.7	4029.5	4090.2	4195.8
57.5°	4635.3	4590.4	4722.4	4928.3	5028.6	4372.6	4362.1	4252.5	4545.5	4490.1	4788.4
60°	4862.3	4874.2	5057.6	5466.8	5641.0	5143.4	5091.9	4899.2	5045.7	5056.3	5374.4
62.5°	5095.9	5068.2	5478.7	5872.0	6139.9	5873.3	5856.1	5473.4	5639.7	5505.1	5926.1
65°	4924.3	4966.6	5553.9	6212.5	6786.6	6587.3	6572.8	6026.4	6117.5	5949.8	6150.5
67.5°	4314.6	4228.8	5051.0	6056.7	7119.2	7335.7	7319.8	6629.6	6386.7	5947.2	5684.5
70°	3162.3	3088.4	3758.9	5128.9	6642.8	7718.4	7781.8	7049.3	6277.2	5392.9	4385.8
72.5°	1549.5	1550.8	2106.5	3477.8	5255.6	7034.7	7066.4	6463.3	5392.9	3975.4	2483.9
75°	458.0	463.3	780.0	1705.2	3397.3	5342.7	5378.3	4905.8	3737.8	2053.7	847.3
77.5°	167.6	167.6	258.7	640.1	1694.7	3372.2	3369.6	3011.9	1892.6	695.6	198.0
80°	87.1	91.1	134.6	261.3	733.8	1756.7	1822.7	1474.3	719.3	293.0	58.1
82.5°	35.6	39.6	73.9	134.6	352.4	616.4	674.4	578.1	312.8	204.6	26.4
85°	10.6	11.9	35.6	75.2	138.6	154.4	171.6	194.0	196.7	158.4	11.9
87.5°	1.3	1.3	14.5	25.1	30.4	33.0	38.3	38.3	100.3	110.9	6.6
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: P483770

CATALOG NUMBER: IFLD-S-SA2D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	906.7	900.1	889.6	865.8	860.5	843.4	842.1	826.2	831.5	820.9	817.0
5°	900.1	885.6	856.6	838.1	819.6	807.7	799.8	793.2	791.9	786.6	784.0
7.5°	912.0	892.2	847.3	818.3	786.6	776.1	758.9	757.6	748.3	739.1	739.1
10°	951.6	916.0	867.1	818.3	777.4	743.1	703.5	674.4	663.9	640.1	642.8
12.5°	983.3	951.6	880.3	830.2	768.1	690.3	603.2	535.9	504.2	473.8	485.7
15°	1028.2	982.0	905.4	832.8	732.5	597.9	455.3	380.1	351.1	344.5	343.2
17.5°	1077.0	1028.2	937.1	826.2	659.9	461.9	335.2	291.7	297.0	304.9	303.6
20°	1131.1	1071.7	960.8	803.8	545.1	335.2	274.5	273.2	281.1	293.0	295.6
22.5°	1187.9	1136.4	989.9	736.5	406.5	269.2	264.0	264.0	269.2	283.8	281.1
25°	1251.2	1182.6	1004.4	632.2	291.7	248.1	250.8	256.0	258.7	270.6	271.9
27.5°	1300.0	1234.0	1008.4	506.8	237.6	229.7	236.3	242.9	246.8	256.0	260.0
30°	1344.9	1298.7	987.2	377.5	217.8	213.8	216.5	225.7	233.6	241.5	241.5
32.5°	1401.7	1335.7	938.4	267.9	205.9	199.3	198.0	201.9	211.2	220.4	220.4
35°	1459.7	1397.7	860.5	215.1	195.3	186.1	180.8	176.9	180.8	187.4	192.7
37.5°	1544.2	1491.4	762.9	198.0	187.4	174.2	163.7	154.4	147.8	146.5	150.5
40°	1664.3	1597.0	637.5	186.1	178.2	162.3	146.5	130.7	116.1	106.9	108.2
42.5°	1846.5	1752.7	501.5	179.5	171.6	149.1	126.7	104.3	85.8	76.6	76.6
45°	2106.5	1958.6	368.2	172.9	163.7	133.3	104.3	77.9	59.4	54.1	55.4
47.5°	2498.5	2206.8	264.0	162.3	153.1	116.1	81.8	55.4	43.6	40.9	42.2
50°	3010.6	2501.1	205.9	150.5	139.9	97.7	60.7	40.9	34.3	33.0	34.3
52.5°	3547.7	2798.1	180.8	139.9	120.1	77.9	44.9	33.0	29.0	27.7	29.0
55°	4007.0	2989.4	157.1	124.1	96.3	58.1	35.6	29.0	25.1	21.1	21.1
57.5°	4471.6	3085.8	124.1	102.9	71.3	43.6	30.4	25.1	21.1	17.2	15.8
60°	4849.1	3154.4	88.4	76.6	50.2	34.3	26.4	22.4	17.2	13.2	11.9
62.5°	5097.2	2957.8	64.7	58.1	37.0	29.0	22.4	18.5	13.2	9.2	9.2
65°	4974.5	2685.9	50.2	40.9	27.7	22.4	18.5	13.2	9.2	5.3	4.0
67.5°	4463.7	2188.3	40.9	30.4	21.1	17.2	14.5	10.6	5.3	1.3	1.3
70°	3330.0	1603.6	33.0	22.4	17.2	13.2	10.6	6.6	2.6	1.3	0.0
72.5°	1821.4	877.7	26.4	18.5	13.2	10.6	7.9	5.3	2.6	0.0	0.0
75°	601.8	233.6	19.8	13.2	7.9	6.6	5.3	4.0	1.3	0.0	0.0
77.5°	145.2	60.7	15.8	11.9	6.6	4.0	2.6	1.3	1.3	0.0	0.0
80°	44.9	25.1	11.9	7.9	5.3	4.0	1.3	0.0	0.0	0.0	0.0
82.5°	18.5	11.9	5.3	5.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	6.6	4.0	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.6	1.3	1.3	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)