

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: P323786

Luminaire Tested: **GAN-SA2A-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7047 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

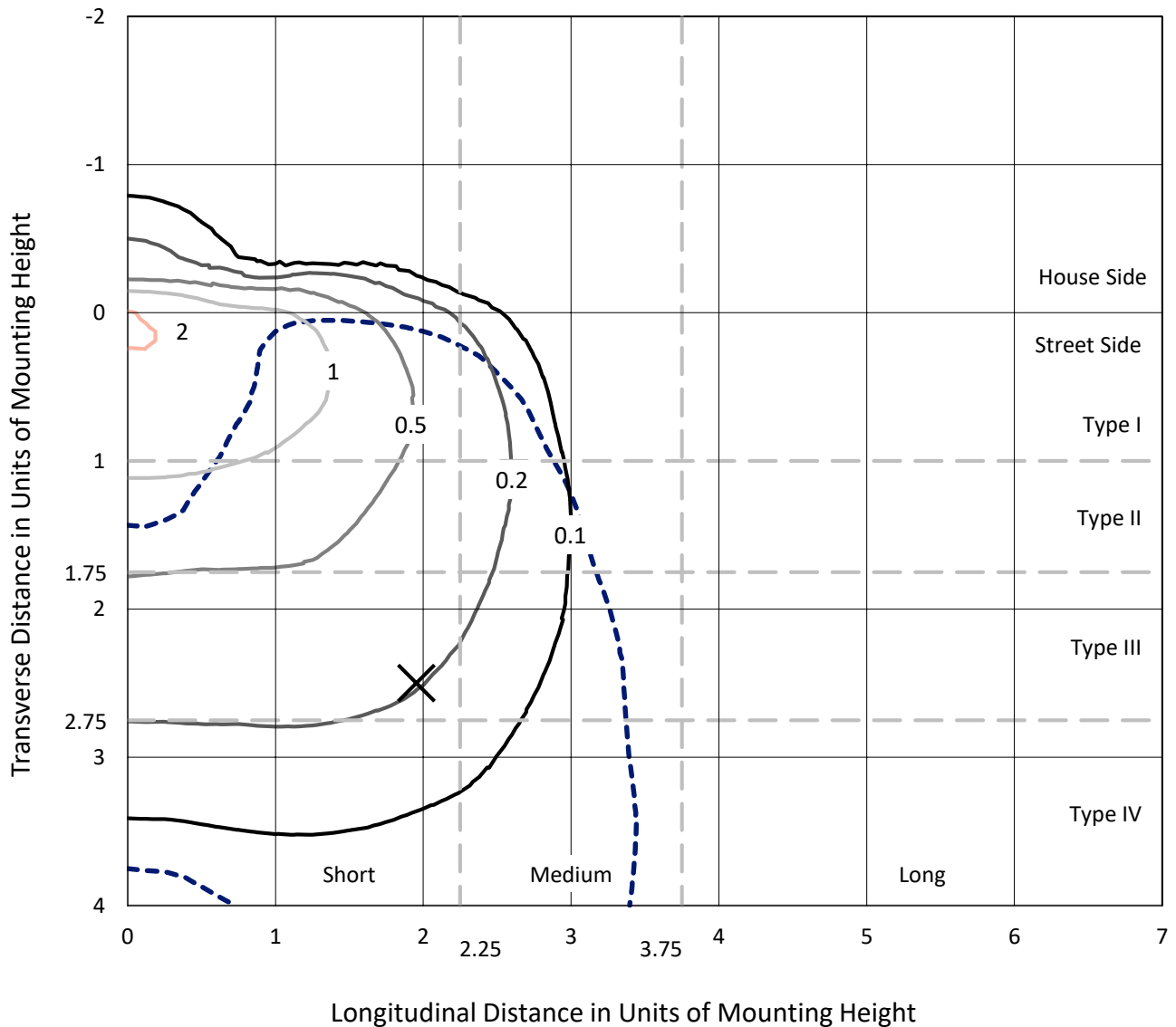
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

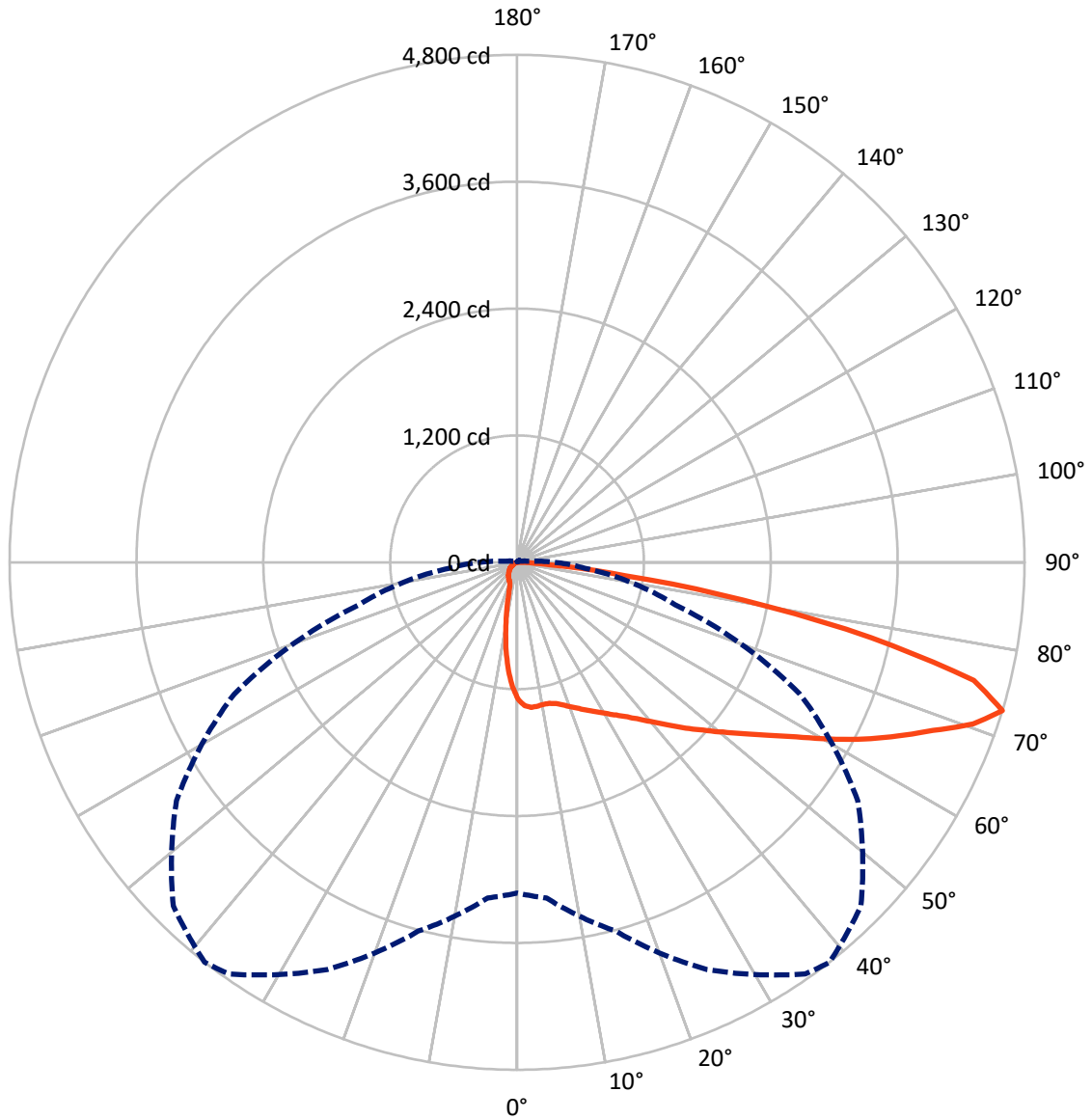
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.0	0.0	593.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6454.0	0.0	6454.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	7047.0	0.0	7047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.6
10°-20°	270.0	3.8
20°-30°	429.5	6.1
30°-40°	645.7	9.2
40°-50°	985.1	14.0
50°-60°	1392.2	19.8
60°-70°	1746.3	24.8
70°-80°	1305.8	18.5
80°-90°	161.9	2.3
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°	7047.0	100.0
0°-180°	7047.0	100.0

Coefficient of Utilization



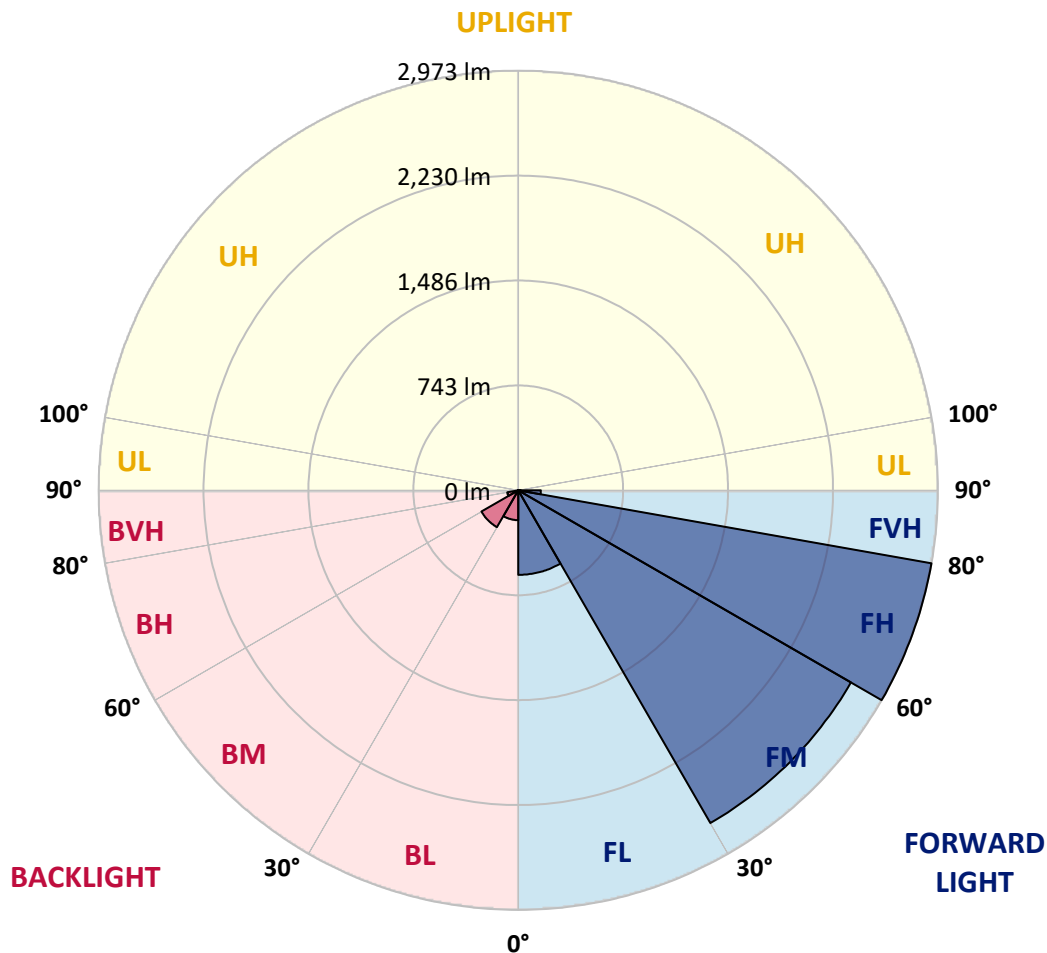
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	598.8	8.5			
FM (30°-60°)	2721.9	38.6			
FH (60°-80°)	2972.9	42.2			G2/5000
FVH (80°-90°)	160.4	2.3			G2/225
BL (0°-30°)	211.2	3.0	B1/500		
BM (30°-60°)	301.1	4.3	B1/1000		
BH (60°-80°)	79.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	35°	38°	45°	55°	65°	75°	85°
0°	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9
2.5°	1375.5	1375.8	1372.6	1367.3	1360.6	1357.1	1351.2	1341.9	1331.9	1314.1	1294.7
5°	1403.6	1403.6	1399.5	1392.5	1381.7	1378.5	1367.3	1352.4	1331.9	1302.9	1270.5
7.5°	1400.7	1401.3	1395.7	1388.4	1377.6	1374.6	1361.2	1344.5	1319.0	1283.9	1242.4
10°	1385.5	1386.9	1382.5	1379.0	1369.1	1365.9	1353.3	1336.6	1311.1	1273.7	1226.0
12.5°	1370.0	1371.4	1372.9	1376.1	1370.0	1368.8	1358.8	1344.8	1320.5	1281.6	1227.7
15°	1360.0	1362.9	1373.5	1386.1	1387.5	1386.4	1379.9	1366.7	1342.2	1301.8	1240.3
17.5°	1360.0	1364.7	1386.6	1410.6	1419.1	1420.0	1414.4	1396.0	1366.7	1323.4	1252.0
20°	1371.4	1377.9	1412.1	1446.1	1460.1	1460.1	1449.3	1423.5	1389.3	1343.0	1259.9
22.5°	1400.7	1409.2	1452.2	1491.4	1506.3	1503.1	1488.5	1451.0	1412.7	1365.3	1269.9
25°	1458.3	1464.8	1509.6	1549.1	1558.1	1550.8	1532.4	1484.4	1442.5	1395.4	1288.0
27.5°	1532.7	1533.6	1579.8	1613.2	1607.6	1602.6	1579.5	1526.2	1485.6	1438.4	1319.3
30°	1614.3	1614.3	1655.0	1680.5	1663.5	1659.4	1636.3	1576.9	1540.6	1497.0	1363.8
32.5°	1693.4	1696.9	1729.9	1746.0	1727.0	1722.9	1700.4	1641.0	1613.8	1586.2	1433.2
35°	1769.7	1772.4	1803.7	1812.5	1794.3	1795.5	1779.4	1729.1	1718.8	1715.3	1537.7
37.5°	1843.8	1844.4	1876.3	1881.8	1872.8	1882.7	1884.2	1839.7	1858.7	1887.1	1684.9
40°	1911.4	1912.0	1943.6	1957.9	1973.4	1986.3	1997.7	1974.0	2036.9	2102.8	1860.2
42.5°	1965.5	1971.7	2011.8	2039.0	2080.0	2104.6	2135.6	2134.4	2249.1	2348.1	2072.1
45°	2013.2	2023.8	2079.7	2127.4	2197.6	2236.8	2285.4	2323.5	2487.9	2621.1	2286.6
47.5°	2076.2	2086.1	2149.9	2228.1	2321.7	2373.2	2453.7	2535.9	2750.5	2889.2	2496.1
50°	2164.8	2160.5	2223.4	2335.5	2455.8	2523.4	2638.1	2761.3	3010.9	3122.7	2619.4
52.5°	2259.4	2257.6	2304.2	2452.2	2613.8	2692.8	2844.4	2994.3	3260.0	3283.7	2675.8
55°	2376.4	2363.9	2403.1	2585.4	2801.4	2886.3	3064.8	3224.9	3458.4	3374.4	2704.2
57.5°	2499.1	2478.3	2515.7	2733.8	3013.0	3113.4	3308.9	3449.6	3590.4	3436.5	2703.9
60°	2625.8	2601.2	2645.7	2919.3	3275.8	3392.0	3573.4	3601.5	3713.6	3467.8	2684.0
62.5°	2731.7	2717.1	2783.2	3117.8	3569.3	3683.5	3773.3	3739.7	3817.5	3492.1	2637.5
65°	2843.8	2844.7	2951.5	3349.3	3881.3	3958.3	3965.9	3918.8	3904.4	3487.1	2480.0
67.5°	2995.4	3009.5	3187.7	3663.6	4184.8	4244.2	4243.6	4112.8	3968.0	3289.3	2130.9
70°	3155.8	3188.9	3459.9	4023.3	4516.1	4576.4	4545.4	4236.3	3736.2	2659.7	1508.1
72.5°	3128.9	3186.2	3611.2	4250.1	4754.0	4800.0	4598.4	3932.8	2953.0	1545.9	642.1
75°	2413.9	2480.3	3311.2	4025.3	4504.4	4463.1	3951.0	3060.4	1613.8	431.4	144.6
77.5°	1275.1	1310.6	2187.4	3066.5	3512.3	3425.9	2783.2	1697.7	492.0	106.8	65.0
80°	667.9	676.1	953.2	1739.9	2167.8	2168.4	1649.5	745.7	202.8	54.7	43.6
82.5°	357.6	364.7	503.7	804.0	1135.8	1029.6	631.6	410.3	117.9	31.0	41.9
85°	86.0	87.5	285.6	367.3	446.6	319.0	187.6	344.5	31.9	18.1	33.9
87.5°	33.1	33.7	105.9	158.9	113.8	73.8	87.8	128.5	4.1	7.0	5.3
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°	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9	1295.9
2.5°	1283.0	1275.4	1256.7	1233.0	1211.9	1196.7	1173.9	1159.0	1149.0	1148.7	1144.9
5°	1250.6	1235.0	1194.7	1146.7	1103.1	1063.8	1017.6	981.0	953.8	949.4	940.0
7.5°	1215.7	1190.3	1128.2	1053.3	980.1	905.8	819.5	765.9	720.0	698.0	695.7
10°	1194.4	1158.7	1070.6	962.3	847.6	726.7	613.7	535.6	479.1	463.0	451.0
12.5°	1190.0	1142.9	1026.1	876.8	712.9	553.1	428.2	345.1	300.0	285.6	281.8
15°	1194.4	1135.5	988.6	792.2	576.5	392.5	287.4	239.1	222.1	218.0	217.7
17.5°	1197.0	1126.8	946.2	698.3	444.3	280.4	220.1	206.0	203.4	203.1	203.7
20°	1196.7	1113.3	895.6	593.5	330.4	220.4	199.0	196.1	195.5	195.8	195.5
22.5°	1194.7	1097.5	839.9	485.5	249.6	197.0	189.9	188.2	187.9	187.9	187.9
25°	1198.5	1084.9	778.8	382.2	205.7	186.1	181.7	180.3	180.0	180.0	179.4
27.5°	1212.2	1077.9	711.8	294.1	185.8	176.5	173.0	172.7	171.8	171.5	172.1
30°	1234.5	1077.9	638.3	228.9	173.8	166.5	163.9	163.3	163.0	162.7	163.0
32.5°	1273.7	1086.1	558.1	190.2	162.4	155.4	153.6	154.5	153.6	153.6	153.6
35°	1344.5	1110.7	474.1	165.9	150.4	144.6	142.8	144.0	143.4	143.4	143.1
37.5°	1447.8	1156.3	389.5	151.3	139.9	133.7	131.4	133.2	132.6	132.6	132.3
40°	1573.7	1222.8	309.1	140.2	129.7	123.2	121.2	122.0	120.6	120.6	121.2
42.5°	1729.1	1307.0	238.8	129.4	119.4	113.3	112.1	111.2	108.6	107.1	107.4
45°	1901.7	1394.8	186.1	118.8	109.7	104.8	103.0	100.7	96.3	93.4	93.7
47.5°	2056.0	1462.4	151.3	108.6	101.0	97.2	94.5	90.1	83.7	80.2	80.5
50°	2137.0	1472.7	128.8	98.3	92.8	89.0	85.2	78.4	70.8	67.0	66.7
52.5°	2157.8	1424.7	112.1	89.0	84.6	80.2	75.2	66.1	57.7	53.6	53.0
55°	2165.4	1351.5	97.2	80.2	75.8	70.8	64.4	54.1	46.2	42.1	41.9
57.5°	2140.3	1242.4	85.5	72.3	67.0	60.9	53.0	43.3	35.7	32.5	32.5
60°	2084.4	1094.6	76.4	63.8	57.9	50.9	42.7	33.7	26.6	24.0	24.0
62.5°	1972.9	903.2	67.9	55.0	49.5	42.1	34.5	25.5	18.7	17.3	17.6
65°	1762.4	685.1	59.4	47.1	42.1	34.8	26.9	18.1	12.6	12.6	13.2
67.5°	1437.3	475.9	50.6	40.1	36.3	28.4	20.5	12.6	8.8	10.0	11.1
70°	951.5	266.9	43.3	33.1	31.0	22.5	15.2	8.5	7.0	9.4	11.4
72.5°	359.1	103.9	36.3	26.6	26.9	17.3	10.8	6.4	6.4	10.2	13.5
75°	100.1	50.9	26.0	19.6	21.1	12.6	7.9	5.6	6.1	11.7	15.8
77.5°	58.8	37.5	17.0	11.4	14.3	8.8	5.3	4.4	5.3	10.0	15.2
80°	47.4	19.9	10.0	5.9	7.9	5.0	3.5	2.6	1.5	3.8	7.9
82.5°	47.4	12.0	4.7	4.1	4.1	2.6	1.8	1.2	0.3	0.0	2.0
85°	31.9	5.0	2.9	2.6	2.0	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	5.3	2.0	1.2	0.6	0.3	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)