

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: McGRAW-EDISON

Report Number: P383072

Luminaire Tested: **GLEON-SA4A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12693.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

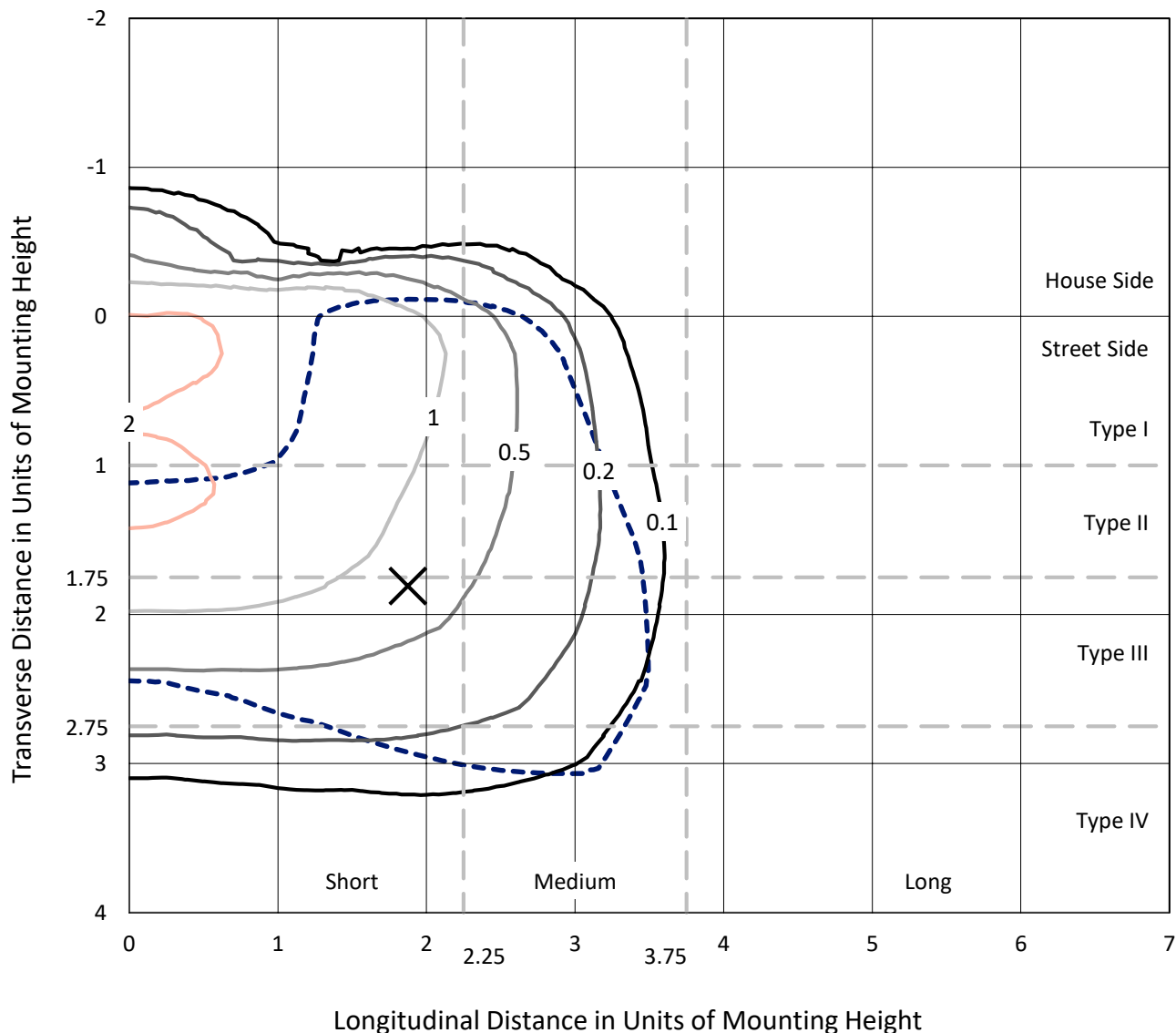
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

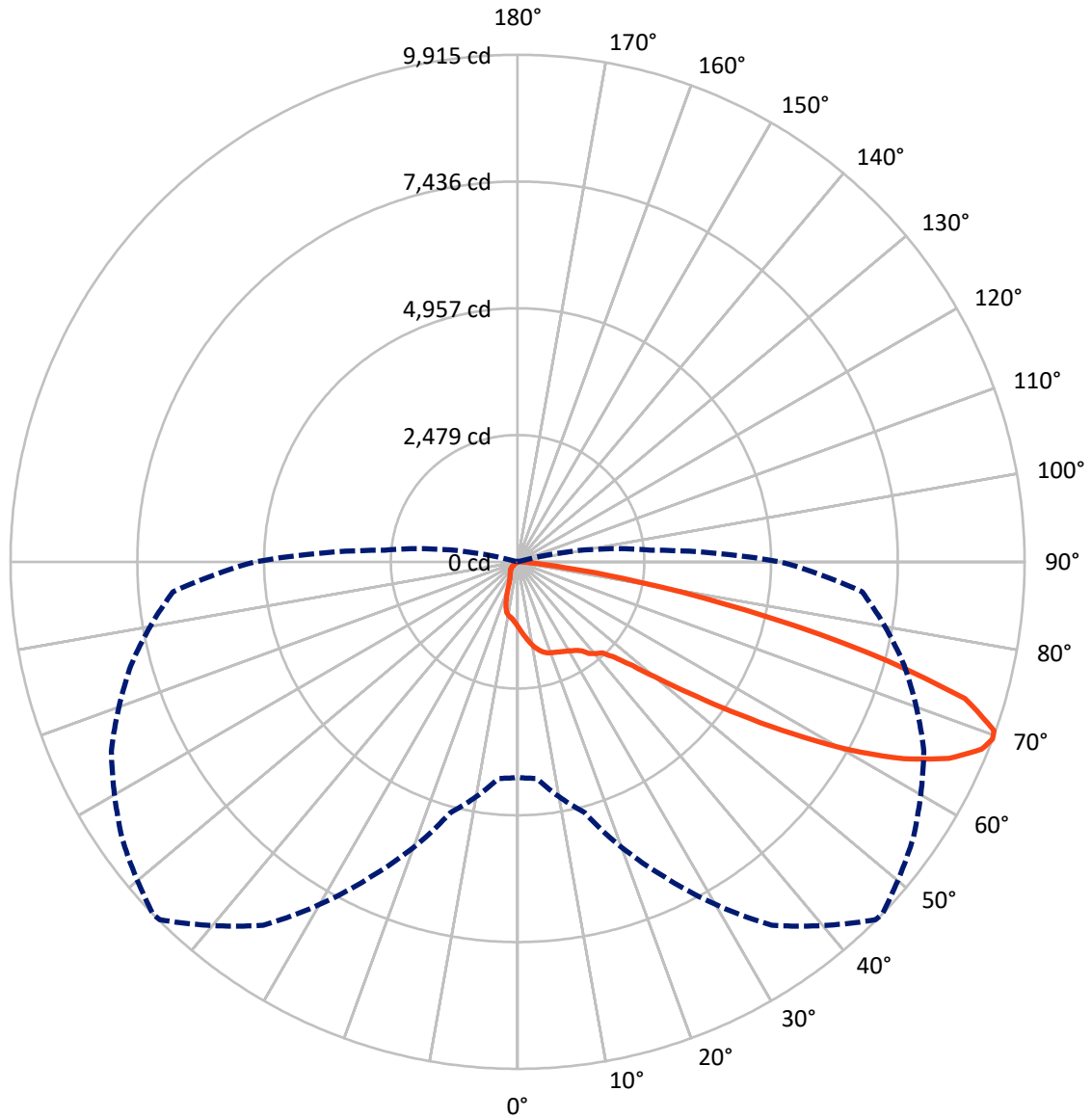
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.7	0.0	1302.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11390.6	0.0	11390.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	12693.3	0.0	12693.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.0
10°-20°	384.0	3.0
20°-30°	604.0	4.8
30°-40°	866.1	6.8
40°-50°	1496.9	11.8
50°-60°	2957.4	23.3
60°-70°	4133.2	32.6
70°-80°	1996.8	15.7
80°-90°	128.3	1.0
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°	12693.3	100.0
0°-180°	12693.3	100.0



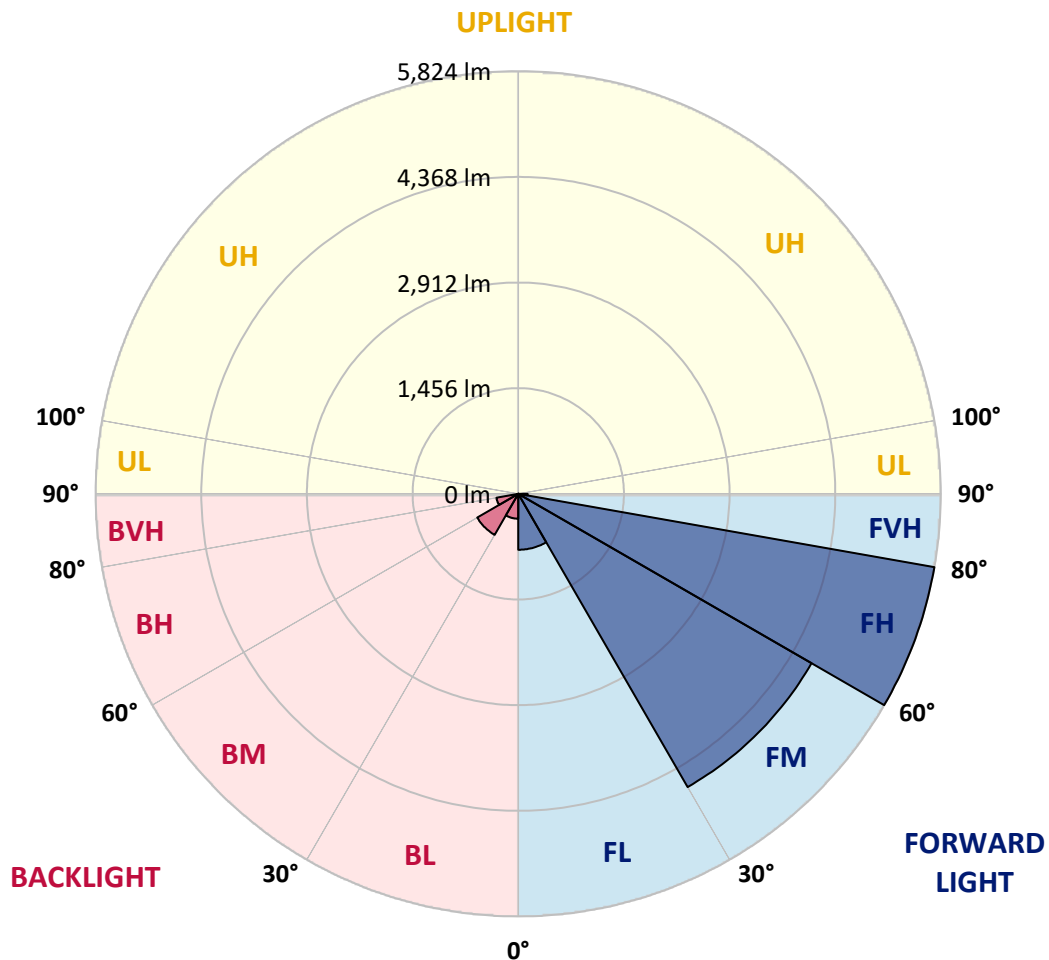
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.3	6.1			
FM (30°-60°)	4667.6	36.8			
FH (60°-80°)	5824.5	45.9			G3/7500
FVH (80°-90°)	127.3	1.0			G2/225
BL (0°-30°)	343.3	2.7	B1/500		
BM (30°-60°)	652.8	5.1	B1/1000		
BH (60°-80°)	305.5	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1412.9	1411.1	1402.7	1399.2	1379.0	1367.0	1362.3	1347.4	1326.0	1304.5	1280.8
5°	1573.6	1572.9	1557.5	1542.6	1504.5	1468.8	1462.3	1427.8	1379.5	1334.3	1289.1
7.5°	1737.8	1730.1	1714.6	1686.0	1630.7	1573.6	1568.2	1519.4	1451.0	1385.5	1320.7
10°	1877.1	1872.3	1852.1	1808.6	1743.8	1678.9	1672.3	1612.2	1534.9	1454.5	1371.8
12.5°	1985.4	1981.9	1955.0	1900.9	1831.9	1764.6	1755.7	1702.1	1619.4	1529.5	1431.9
15°	2051.5	2049.7	2016.9	1959.2	1891.3	1833.0	1825.3	1778.3	1701.5	1607.5	1497.4
17.5°	2066.9	2067.5	2033.6	1975.3	1919.4	1877.6	1871.8	1836.0	1771.7	1678.3	1562.9
20°	2032.5	2039.5	2009.2	1958.6	1924.1	1902.0	1897.3	1875.9	1821.7	1733.6	1615.2
22.5°	1983.6	1987.2	1966.3	1932.4	1918.1	1922.3	1919.9	1908.0	1862.2	1781.3	1667.0
25°	1953.8	1953.8	1941.3	1912.7	1922.3	1947.9	1948.5	1946.1	1909.8	1839.6	1730.1
27.5°	1952.6	1949.1	1934.8	1913.4	1939.6	1978.9	1981.2	1997.3	1974.7	1910.4	1808.6
30°	2000.3	1996.1	1965.8	1937.8	1971.2	2013.4	2019.3	2054.4	2043.2	1987.2	1896.2
32.5°	2111.5	2096.7	2029.5	1983.6	2008.6	2059.2	2066.9	2122.9	2140.7	2081.8	1980.7
35°	2263.9	2216.9	2119.9	2070.5	2072.9	2125.9	2133.0	2215.1	2268.0	2168.7	2046.1
37.5°	2474.0	2450.8	2293.1	2161.0	2171.7	2252.0	2272.9	2362.1	2347.2	2216.3	2120.5
40°	2934.7	2898.3	2730.6	2414.5	2266.3	2354.4	2360.9	2408.5	2409.7	2324.0	2275.2
42.5°	3562.0	3547.1	3370.2	2874.6	2452.6	2422.9	2434.7	2515.1	2605.0	2551.4	2549.0
45°	4256.4	4248.7	4061.3	3485.1	2829.3	2647.2	2662.1	2769.8	2941.8	2953.7	3029.3
47.5°	4815.3	4811.7	4704.0	4166.6	3406.0	3027.5	3032.3	3146.5	3448.9	3598.2	3719.0
50°	5324.7	5342.0	5256.9	4903.9	4191.6	3623.3	3611.9	3688.1	4173.7	4418.3	4568.3
52.5°	6033.0	6057.4	5818.7	5592.0	5015.8	4362.3	4353.5	4433.2	5045.0	5228.3	5255.1
55°	6658.4	6616.8	6428.1	6362.7	6021.1	5275.4	5272.9	5343.2	5887.8	5965.7	6015.1
57.5°	6934.6	6918.5	7009.6	7159.6	7073.9	6354.4	6349.0	6295.4	6641.7	6650.1	6801.9
60°	7109.0	7128.6	7407.8	7870.2	8083.8	7515.4	7480.9	7154.2	7361.9	7343.5	7505.9
62.5°	6978.0	7016.7	7519.0	8289.7	8839.6	8529.0	8480.2	7941.0	7977.3	7913.6	8064.8
65°	6282.9	6343.0	7166.1	8210.6	9214.6	9321.1	9271.7	8635.5	8465.9	8361.1	8277.3
67.5°	5101.5	5137.3	5996.7	7522.0	9045.5	9793.6	9783.6	9244.3	8834.9	8285.6	7634.5
69°	4216.0	4251.1	5078.3	6797.1	8673.6	9894.8	9914.5	9439.6	8764.7	7826.1	6764.3
70°	3570.8	3608.3	4379.0	6175.8	8242.1	9847.9	9882.9	9421.1	8563.5	7294.0	6000.8
72.5°	1872.9	1905.0	2696.0	4254.7	6719.2	9042.6	9149.1	8624.8	7258.9	5297.3	3548.3
75°	588.6	607.1	1052.8	2224.1	4600.4	7031.0	7055.4	6765.6	5154.5	2913.8	1477.7
77.5°	224.4	219.0	350.5	819.5	2325.8	4427.3	4576.6	4227.9	2704.9	1030.2	341.0
80°	120.8	121.4	182.1	339.3	995.1	2275.2	2401.4	2049.0	961.2	321.4	78.5
82.5°	52.4	54.8	102.4	179.7	457.1	839.1	902.2	751.1	367.2	216.0	29.2
85°	11.3	12.5	49.4	97.6	186.3	235.7	247.0	243.4	233.9	167.9	11.3
87.5°	0.0	0.0	22.0	35.1	47.0	53.6	47.0	61.3	129.1	113.1	6.0
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°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1273.1	1262.3	1243.8	1223.6	1209.3	1194.4	1182.5	1177.2	1171.2	1167.0	1172.4
5°	1270.6	1249.8	1214.1	1179.5	1154.6	1134.3	1117.7	1111.1	1104.6	1099.8	1099.2
7.5°	1291.5	1262.3	1207.6	1157.0	1118.2	1090.9	1068.3	1058.8	1051.1	1047.4	1044.5
10°	1331.4	1293.8	1220.6	1154.6	1104.6	1058.1	1009.3	971.9	947.5	936.1	932.0
12.5°	1383.1	1336.1	1245.7	1167.0	1094.5	1005.2	901.6	812.4	754.6	735.5	724.3
15°	1443.8	1385.5	1278.4	1183.2	1057.6	894.5	719.0	602.2	548.7	538.0	526.1
17.5°	1502.1	1437.8	1317.7	1186.1	976.6	714.8	526.7	447.5	426.7	433.8	435.7
20°	1553.4	1489.6	1356.3	1160.0	829.6	536.2	407.6	388.0	395.8	409.4	411.8
22.5°	1605.1	1539.7	1392.0	1090.9	641.6	407.1	367.2	372.0	379.7	393.4	395.8
25°	1668.2	1600.3	1425.4	964.2	481.4	346.3	348.8	355.9	363.7	376.2	377.3
27.5°	1740.8	1677.1	1447.3	799.3	357.1	318.4	326.1	336.8	344.6	356.5	358.8
30°	1837.2	1778.3	1454.5	628.5	299.4	293.4	297.0	310.1	321.4	332.1	333.9
32.5°	1927.7	1878.3	1430.8	474.3	277.3	270.1	270.1	278.0	291.0	301.2	303.5
35°	2011.0	1978.9	1354.6	347.0	260.6	248.7	242.9	242.9	251.1	259.4	261.9
37.5°	2121.0	2119.9	1231.3	276.8	244.6	230.9	218.4	208.9	206.0	207.7	208.9
40°	2309.8	2311.5	1070.6	248.2	230.9	212.5	193.4	176.2	160.1	154.7	154.2
42.5°	2604.3	2577.6	902.2	234.5	219.0	193.4	164.9	141.7	116.6	108.9	108.3
45°	3072.2	2913.2	723.7	222.0	206.5	172.0	136.3	104.7	84.5	78.5	78.5
47.5°	3753.6	3354.2	560.6	208.3	189.8	147.6	102.9	75.5	61.9	58.9	59.5
50°	4458.2	3786.3	429.7	191.1	169.6	122.0	76.2	54.8	47.0	47.0	47.6
52.5°	5083.1	4102.9	335.1	172.6	144.6	95.9	57.8	42.9	39.3	38.7	39.3
55°	5668.1	4307.0	256.5	151.2	114.9	71.4	44.1	35.1	32.7	31.6	30.9
57.5°	6232.3	4408.2	192.3	122.0	83.3	51.8	35.1	29.7	27.4	25.6	25.0
60°	6607.8	4326.1	132.1	89.9	57.8	37.4	29.2	25.6	22.6	20.9	20.2
62.5°	6819.8	4101.7	85.1	64.8	41.1	27.9	23.2	21.4	17.2	15.5	15.5
65°	6734.1	3731.5	59.5	46.4	29.7	20.9	17.2	17.2	12.5	10.2	9.5
67.5°	5967.5	3152.5	45.3	34.6	21.4	15.5	13.1	14.9	7.7	4.8	4.8
69°	5134.3	2612.7	38.7	28.6	17.9	12.5	11.3	13.7	5.3	3.5	3.0
70°	4462.4	2253.8	35.1	25.0	14.9	10.7	10.2	13.1	5.3	3.0	2.4
72.5°	2669.8	1256.9	26.7	17.9	9.5	8.3	8.3	14.9	5.3	3.0	2.4
75°	1079.0	442.8	19.7	12.5	7.2	7.2	10.2	19.0	4.8	2.4	1.8
77.5°	244.6	97.0	11.3	7.7	4.8	7.2	11.9	14.9	3.0	1.2	0.0
80°	59.5	23.8	7.2	4.8	3.0	5.3	8.9	8.3	0.6	0.0	0.0
82.5°	19.7	8.3	3.0	2.4	0.6	1.8	4.2	2.4	0.0	0.0	0.0
85°	8.3	4.8	1.2	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	0.0	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)