

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: P382872

Luminaire Tested: **GLEON-SA2B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8377.4 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

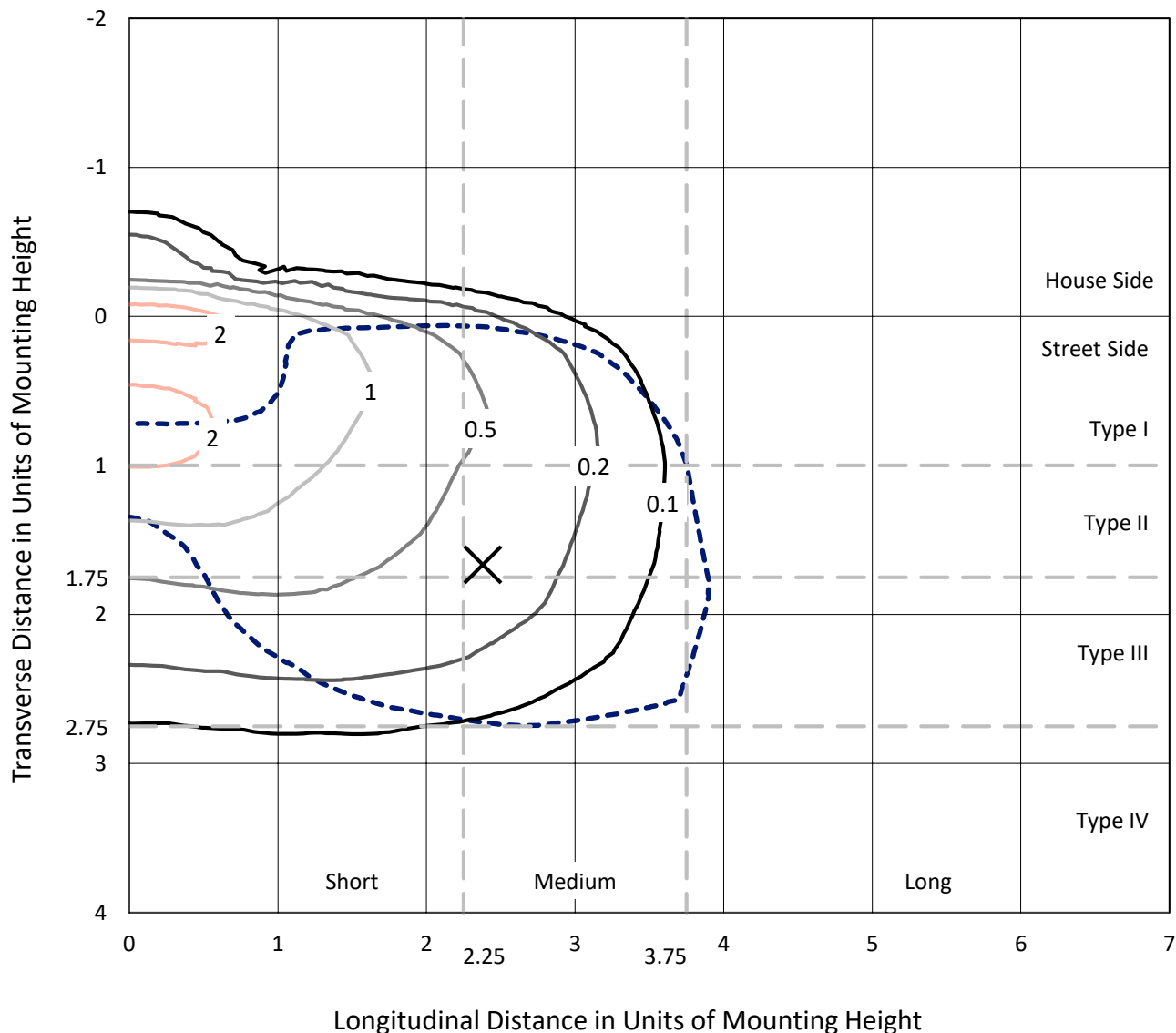
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

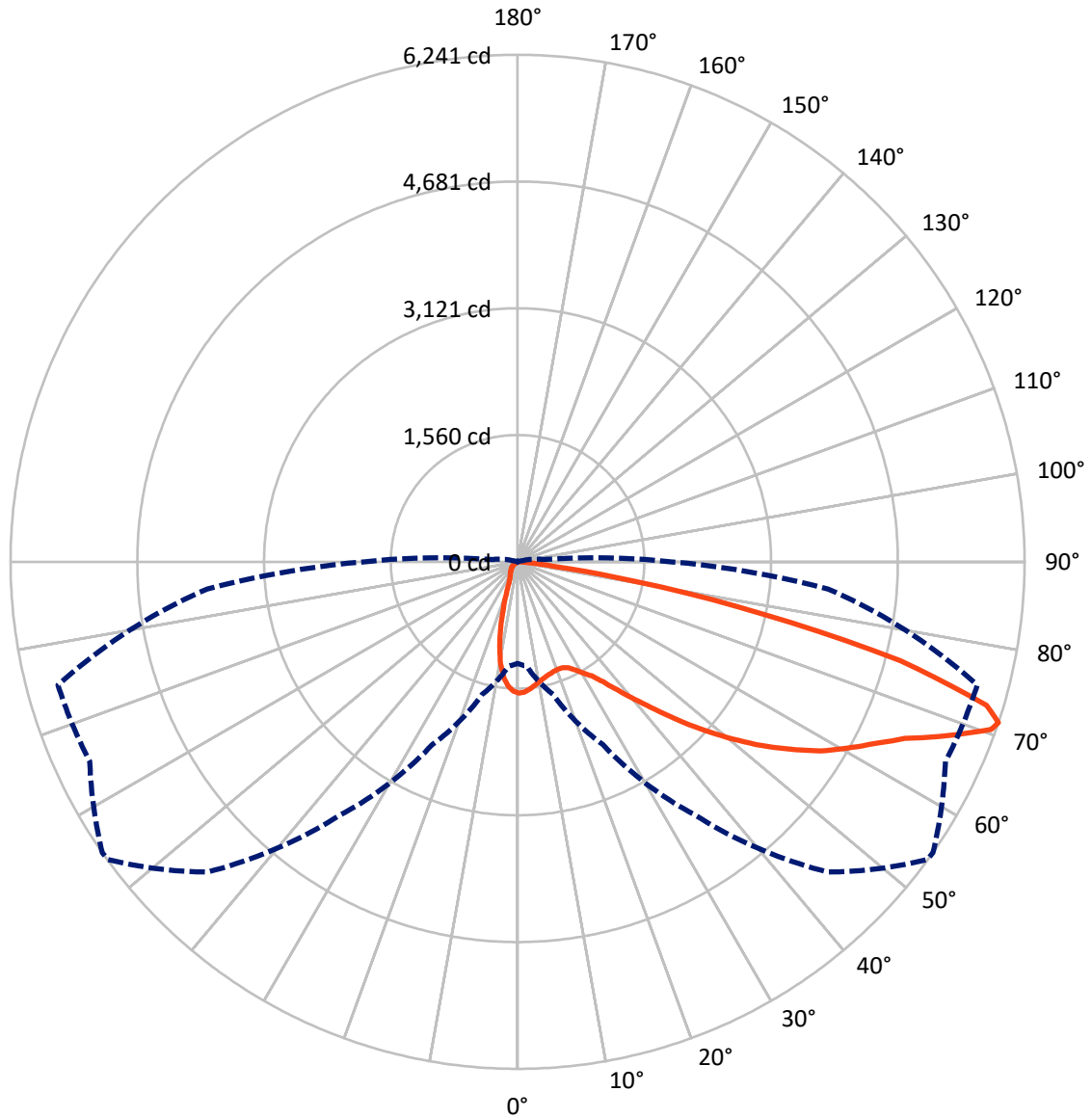
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.3	0.0	663.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7714.1	0.0	7714.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	8377.4	0.0	8377.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.6
10°-20°	311.0	3.7
20°-30°	499.8	6.0
30°-40°	849.1	10.1
40°-50°	1318.0	15.7
50°-60°	1772.0	21.2
60°-70°	2167.7	25.9
70°-80°	1267.4	15.1
80°-90°	54.8	0.7
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°	8377.4	100.0
0°-180°	8377.4	100.0

Coefficient of Utilization

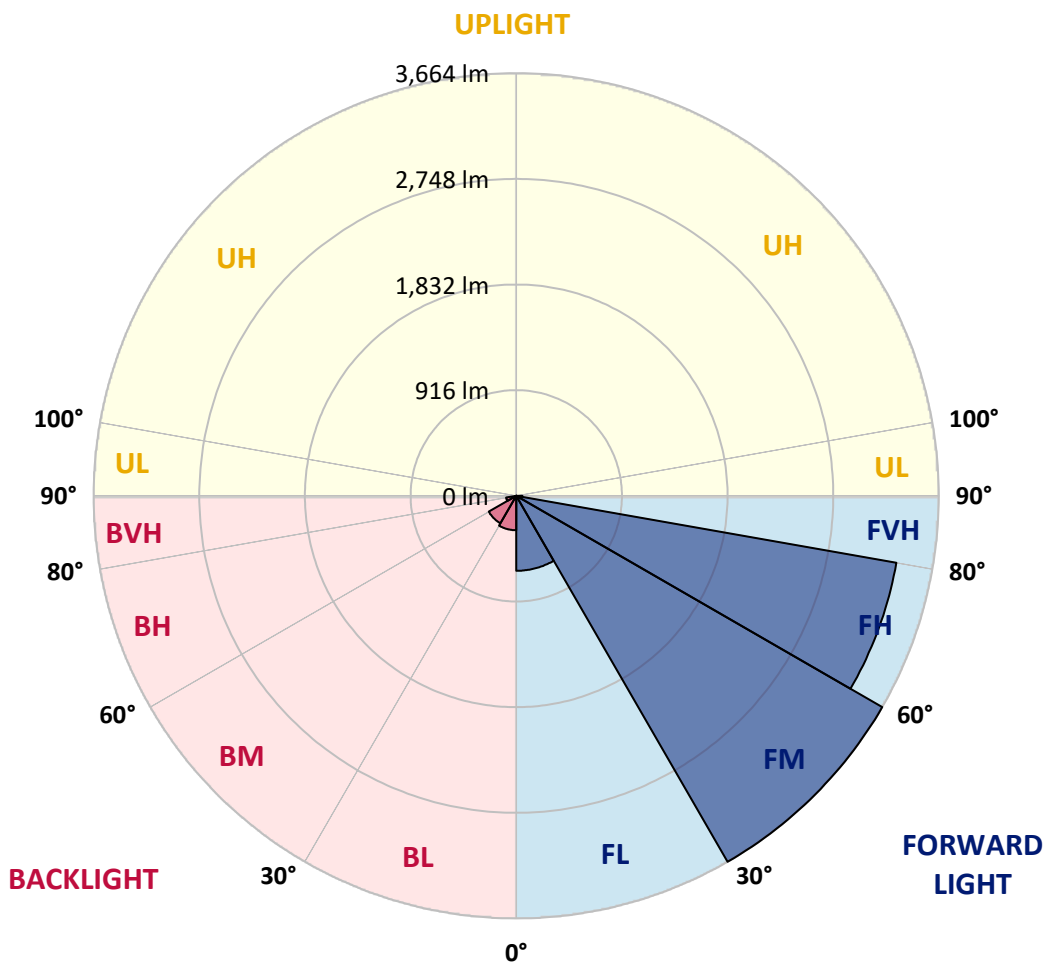


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.0	7.8			
FM (30°-60°)	3664.0	43.7			
FH (60°-80°)	3346.2	39.9			G2/5000
FVH (80°-90°)	53.9	0.6			G1/100
BL (0°-30°)	298.5	3.6	B1/500		
BM (30°-60°)	275.0	3.3	B1/1000		
BH (60°-80°)	88.9	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6
2.5°	1568.3	1570.1	1576.8	1579.9	1587.0	1599.1	1605.1	1605.4	1615.2	1619.0	1622.0
5°	1457.2	1468.5	1479.9	1491.9	1513.7	1542.6	1571.2	1573.8	1605.4	1628.8	1641.2
7.5°	1361.7	1371.9	1385.4	1404.6	1435.4	1481.0	1528.8	1534.4	1594.2	1647.3	1675.0
10°	1263.6	1271.8	1291.4	1319.5	1362.1	1423.0	1487.3	1496.7	1584.0	1672.0	1720.9
12.5°	1158.6	1163.5	1187.2	1227.8	1290.2	1367.7	1452.4	1464.8	1577.6	1700.6	1775.1
15°	1078.8	1081.1	1103.7	1145.8	1217.3	1318.0	1425.3	1440.4	1579.2	1734.8	1834.1
17.5°	1058.5	1059.6	1071.7	1100.6	1163.9	1273.7	1403.8	1422.3	1583.6	1768.4	1893.6
20°	1140.9	1133.0	1120.6	1116.1	1143.2	1247.0	1391.1	1411.8	1589.7	1798.1	1947.0
22.5°	1367.0	1343.7	1292.1	1223.3	1181.5	1248.8	1394.4	1415.1	1608.9	1834.5	2008.7
25°	1702.5	1670.2	1582.5	1447.1	1316.9	1303.0	1422.7	1443.7	1646.0	1878.2	2067.8
27.5°	2084.3	2052.3	1945.2	1751.8	1529.9	1410.3	1487.3	1506.9	1701.4	1916.9	2112.9
30°	2450.0	2440.9	2314.5	2094.9	1797.7	1584.0	1570.9	1587.4	1742.4	1940.2	2148.6
32.5°	2759.9	2745.6	2644.0	2430.4	2104.3	1792.8	1669.1	1673.9	1773.2	1970.3	2195.3
35°	3047.3	3029.6	2940.4	2738.5	2418.8	2047.8	1820.2	1813.1	1840.6	2030.9	2263.0
37.5°	3298.1	3314.4	3215.4	3023.2	2700.8	2313.0	2024.2	2002.6	1945.9	2129.4	2361.2
40°	3508.1	3508.1	3456.5	3296.3	3005.5	2587.3	2254.7	2226.5	2104.3	2281.5	2485.6
42.5°	3583.7	3599.9	3619.1	3528.4	3278.2	2872.3	2511.6	2482.3	2327.3	2496.9	2642.9
45°	3588.2	3613.8	3711.9	3711.6	3524.6	3155.6	2801.3	2787.4	2613.2	2773.8	2837.8
47.5°	3524.6	3556.6	3718.4	3810.1	3719.9	3419.3	3118.0	3100.7	2949.1	3113.1	3041.6
50°	3426.4	3461.8	3649.9	3848.9	3852.6	3648.8	3451.7	3425.7	3318.9	3500.9	3252.3
52.5°	3250.8	3319.3	3588.6	3857.9	3939.9	3847.0	3769.1	3757.9	3732.6	3874.5	3420.1
55°	2875.0	2951.0	3434.7	3860.9	4020.7	4022.7	4066.7	4069.7	4120.5	4223.5	3544.9
57.5°	2697.5	2740.3	3166.1	3875.2	4140.8	4222.1	4369.9	4393.2	4471.8	4554.9	3687.5
60°	2585.7	2636.6	3033.8	3855.7	4329.3	4483.4	4650.8	4658.8	4743.0	4896.9	3880.5
62.5°	2496.5	2546.6	2950.2	3780.4	4541.0	4797.9	4925.5	4926.2	4989.4	5304.2	4099.7
65°	2276.5	2318.6	2781.3	3695.8	4680.9	5109.0	5244.4	5239.6	5291.1	5733.9	4354.4
67.5°	1958.3	1990.6	2436.4	3374.9	4628.3	5391.9	5725.9	5709.7	5647.3	6105.1	4454.5
70°	1514.0	1525.7	1920.3	2812.5	4134.8	5500.6	6191.3	6183.0	5865.9	6038.5	4087.7
71°	1251.5	1289.8	1692.3	2482.3	3804.2	5400.2	6236.3	6241.3	5810.9	5857.2	3835.4
72.5°	726.7	759.5	1226.7	1906.4	3229.7	4981.2	6002.4	6037.7	5554.4	5327.6	3276.0
75°	155.8	166.7	454.8	922.7	1776.6	3491.2	4737.8	4863.8	4527.1	3624.3	1974.5
77.5°	108.3	117.0	194.9	418.6	587.2	1725.0	2943.1	3085.3	2704.6	1362.1	632.0
80°	85.8	95.6	151.9	206.9	158.7	556.3	1378.6	1465.5	902.0	304.0	106.5
82.5°	47.8	56.8	118.5	111.7	60.9	105.7	385.9	436.3	180.5	61.3	25.2
85°	13.9	17.0	76.4	81.2	26.0	20.3	65.9	81.6	34.2	16.2	11.3
87.5°	0.0	0.0	36.9	31.2	7.5	3.0	6.1	6.8	6.8	6.8	7.5
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°	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6
2.5°	1622.0	1624.6	1615.2	1602.8	1589.7	1573.5	1556.5	1543.4	1543.0	1536.6	1530.3
5°	1641.9	1640.5	1614.5	1575.0	1528.4	1479.9	1433.6	1381.3	1364.0	1342.5	1335.4
7.5°	1678.8	1668.3	1613.3	1526.8	1424.5	1323.0	1218.0	1112.3	1067.2	1026.6	1019.4
10°	1725.0	1705.1	1606.2	1454.6	1266.9	1079.6	921.2	777.6	714.3	665.8	663.5
12.5°	1773.2	1742.7	1586.2	1345.5	1060.4	797.1	614.6	473.2	420.6	386.7	389.7
15°	1823.6	1778.1	1543.4	1198.4	825.3	540.9	377.6	294.6	273.5	264.8	267.1
17.5°	1875.2	1802.5	1483.6	1021.3	593.2	349.1	261.4	238.1	238.1	240.0	240.7
20°	1919.9	1815.8	1395.6	822.6	402.1	254.3	228.7	225.3	227.2	230.2	230.6
22.5°	1964.4	1816.5	1280.8	621.4	281.3	222.7	217.8	216.3	217.4	220.8	221.1
25°	2000.4	1807.5	1137.1	442.0	224.6	209.9	207.6	206.9	207.6	211.7	211.7
27.5°	2015.1	1774.7	961.8	310.7	201.2	195.6	194.9	195.6	196.7	199.7	200.1
30°	2016.6	1717.6	770.8	225.0	182.4	176.4	177.9	180.5	179.4	178.7	179.4
32.5°	2020.3	1651.4	584.5	185.1	166.7	157.2	155.4	155.4	150.8	148.2	146.7
35°	2032.7	1573.5	423.9	166.3	150.4	139.5	132.4	124.2	115.5	110.9	109.8
37.5°	2052.3	1491.9	303.6	153.9	136.2	123.8	110.2	95.6	83.1	79.7	79.7
40°	2088.1	1407.6	224.6	144.1	124.9	109.5	89.1	70.0	58.7	56.8	56.8
42.5°	2144.5	1318.8	179.0	135.4	115.1	94.8	68.1	50.8	42.5	41.4	41.0
45°	2203.2	1221.0	156.5	127.2	104.6	77.9	50.4	37.6	32.7	31.6	31.6
47.5°	2261.9	1116.8	145.6	119.2	94.5	60.6	37.6	29.7	27.5	27.5	27.9
50°	2311.5	1008.1	137.7	110.6	81.2	45.9	29.7	25.2	24.4	26.0	26.4
52.5°	2323.9	901.3	127.9	99.7	65.1	35.0	24.4	22.2	22.2	22.2	22.2
55°	2316.4	818.6	115.1	86.2	48.2	27.9	21.1	19.6	19.2	19.2	19.2
57.5°	2342.0	769.6	92.1	67.0	34.6	22.5	18.4	17.3	16.6	16.2	16.2
60°	2393.5	737.7	65.9	48.2	26.0	18.8	15.8	14.6	13.5	12.8	12.8
62.5°	2462.0	709.8	48.9	35.8	19.9	15.1	13.1	12.0	10.5	9.8	9.8
65°	2514.6	660.2	37.3	26.7	15.1	12.0	10.2	9.8	7.5	6.8	6.4
67.5°	2434.1	551.1	30.1	19.6	11.3	9.4	7.9	7.5	4.5	3.7	3.7
70°	2087.7	383.7	24.0	14.3	8.3	7.5	6.4	4.8	3.4	3.0	3.0
71°	1893.2	320.5	21.8	12.0	7.2	7.2	6.1	4.1	3.0	2.6	2.6
72.5°	1572.7	227.6	18.4	9.4	6.4	7.5	6.4	3.7	3.0	2.6	2.2
75°	912.9	95.2	12.8	6.4	4.8	9.0	8.3	3.4	2.2	1.9	1.9
77.5°	274.6	35.0	7.2	4.1	3.7	7.9	9.4	3.0	1.1	0.4	0.4
80°	50.0	15.1	4.5	2.6	2.6	4.8	7.2	1.5	0.0	0.0	0.0
82.5°	17.7	7.5	2.6	1.5	1.1	2.2	3.4	0.0	0.0	0.0	0.0
85°	10.2	5.3	1.5	0.7	0.0	0.4	0.7	0.0	0.0	0.0	0.0
87.5°	6.8	1.5	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)