

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: P382788

Luminaire Tested: **GLEON-SA1C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382788
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-SA1C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5305.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

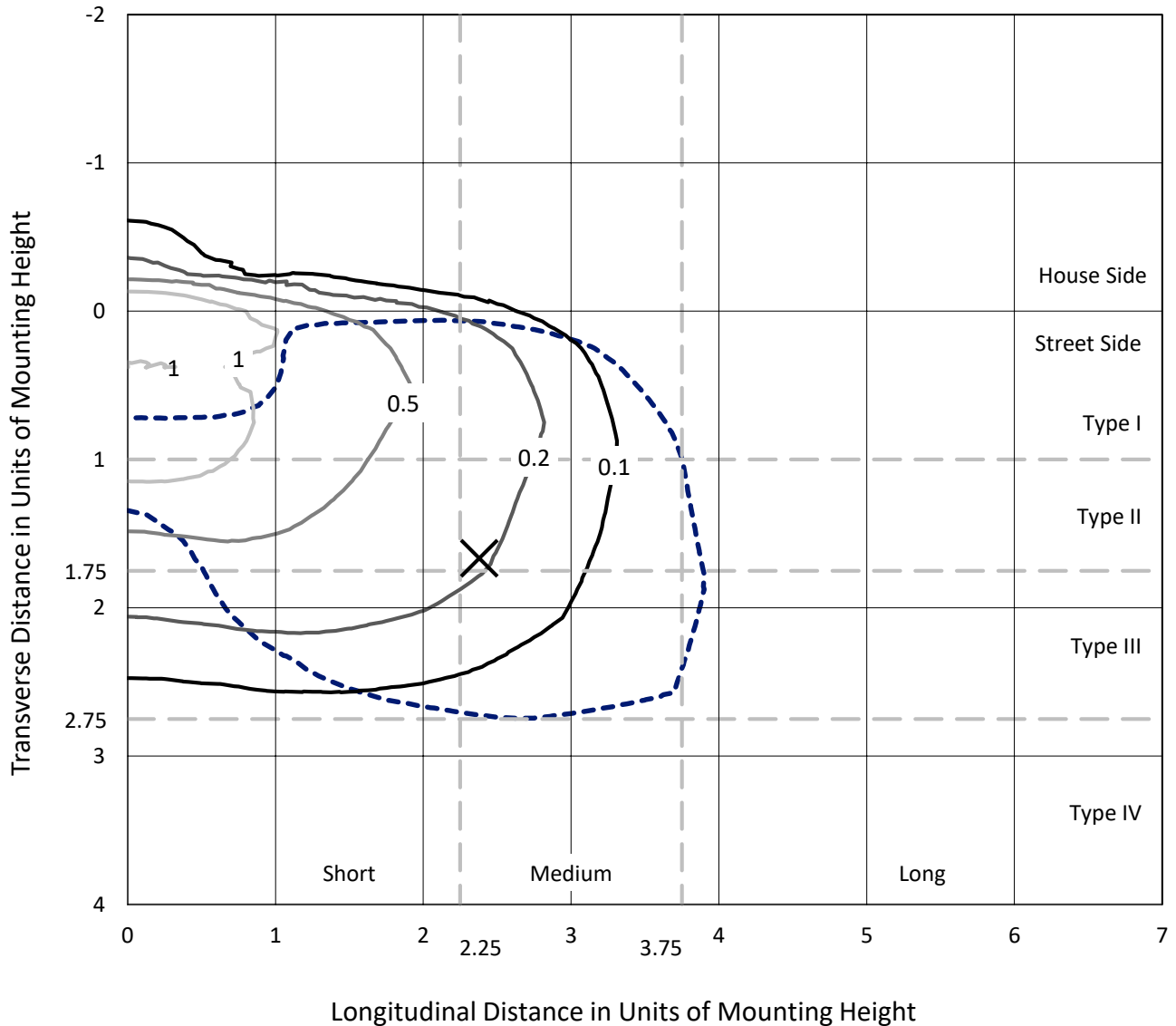
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

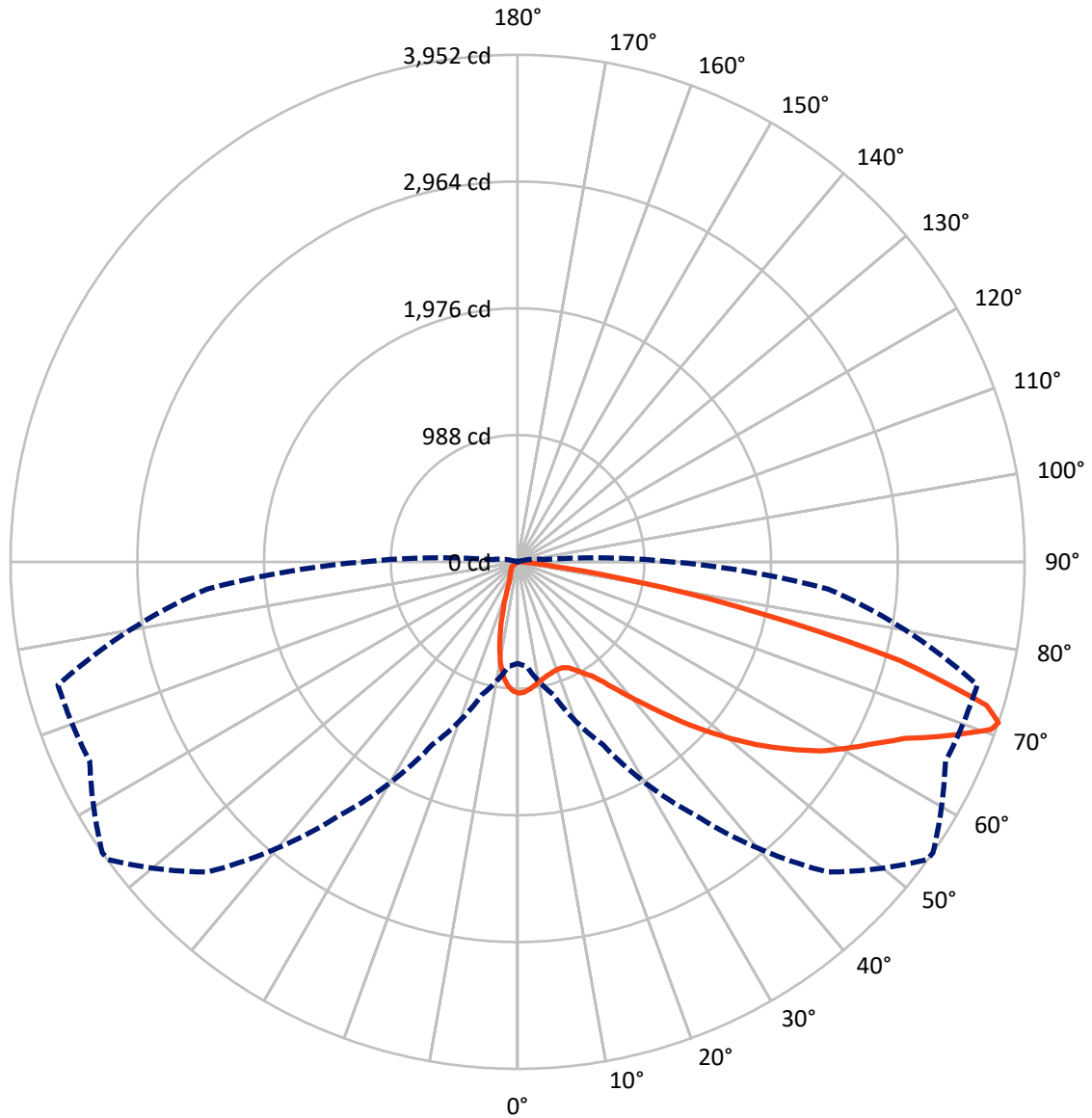
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	420.0	0.0	420.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4885.1	0.0	4885.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	5305.2	0.0	5305.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.6
10°-20°	196.9	3.7
20°-30°	316.5	6.0
30°-40°	537.7	10.1
40°-50°	834.6	15.7
50°-60°	1122.1	21.2
60°-70°	1372.7	25.9
70°-80°	802.6	15.1
80°-90°	34.7	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°	5305.2	100.0
0°-180°	5305.2	100.0

Coefficient of Utilization

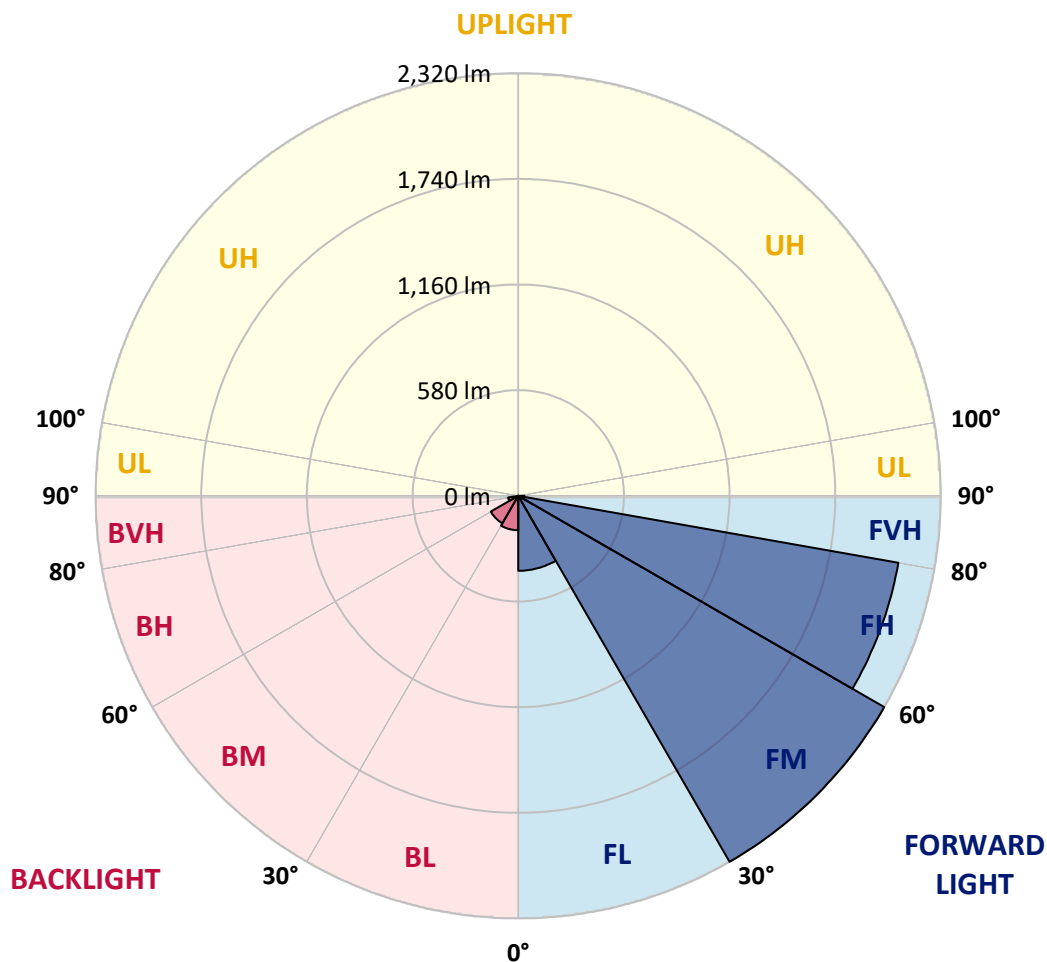


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.6	7.8			
FM (30°-60°)	2320.3	43.7			
FH (60°-80°)	2119.1	39.9			G2/5000
FVH (80°-90°)	34.1	0.6			G1/100
BL (0°-30°)	189.1	3.6	B1/500		
BM (30°-60°)	174.1	3.3	B0/220		
BH (60°-80°)	56.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1
2.5°	993.1	994.3	998.6	1000.5	1005.0	1012.6	1016.4	1016.7	1022.8	1025.3	1027.1
5°	922.8	930.0	937.1	944.8	958.6	976.9	995.0	996.7	1016.7	1031.5	1039.3
7.5°	862.3	868.8	877.3	889.4	909.0	937.9	968.1	971.7	1009.5	1043.1	1060.8
10°	800.2	805.4	817.8	835.7	862.5	901.2	941.9	947.8	1003.1	1058.9	1089.8
12.5°	733.7	736.8	751.8	777.6	817.1	866.2	919.7	927.6	999.1	1077.0	1124.1
15°	683.2	684.6	698.9	725.6	770.9	834.7	902.6	912.1	1000.0	1098.7	1161.5
17.5°	670.3	671.1	678.6	697.0	737.0	806.6	889.0	900.7	1002.9	1119.8	1199.2
20°	722.5	717.5	709.7	706.8	723.9	789.7	880.9	894.0	1006.7	1138.6	1233.0
22.5°	865.7	850.9	818.3	774.7	748.2	790.9	883.0	896.1	1018.8	1161.7	1272.0
25°	1078.2	1057.7	1002.2	916.4	834.0	825.2	900.9	914.2	1042.4	1189.4	1309.5
27.5°	1319.9	1299.7	1231.8	1109.4	968.8	893.1	941.9	954.3	1077.4	1213.9	1338.1
30°	1551.5	1545.7	1465.7	1326.6	1138.4	1003.1	994.8	1005.2	1103.4	1228.7	1360.7
32.5°	1747.8	1738.7	1674.4	1539.1	1332.6	1135.3	1056.9	1060.0	1122.9	1247.7	1390.2
35°	1929.8	1918.5	1862.1	1734.2	1531.7	1296.8	1152.7	1148.2	1165.6	1286.1	1433.1
37.5°	2088.6	2098.9	2036.3	1914.5	1710.3	1464.8	1281.8	1268.2	1232.3	1348.5	1495.2
40°	2221.6	2221.6	2189.0	2087.4	1903.3	1638.4	1427.9	1410.0	1332.6	1444.7	1574.1
42.5°	2269.4	2279.7	2291.8	2234.4	2076.0	1818.9	1590.5	1572.0	1473.8	1581.2	1673.7
45°	2272.3	2288.5	2350.7	2350.5	2232.1	1998.4	1773.9	1765.2	1654.9	1756.6	1797.0
47.5°	2232.1	2252.3	2354.8	2412.8	2355.7	2165.4	1974.5	1963.6	1867.6	1971.4	1926.2
50°	2169.9	2192.3	2311.4	2437.4	2439.7	2310.6	2185.9	2169.4	2101.8	2217.1	2059.6
52.5°	2058.6	2101.9	2272.5	2443.1	2495.1	2436.2	2386.9	2379.7	2363.8	2453.6	2165.8
55°	1820.6	1868.8	2175.1	2445.0	2546.3	2547.4	2575.3	2577.2	2609.4	2674.7	2244.9
57.5°	1708.2	1735.4	2005.1	2454.1	2622.2	2673.7	2767.3	2782.1	2831.9	2884.5	2335.2
60°	1637.5	1669.6	1921.2	2441.7	2741.5	2839.3	2945.3	2950.2	3003.6	3101.0	2457.4
62.5°	1581.0	1612.7	1868.3	2394.0	2875.7	3038.4	3119.1	3119.7	3159.6	3359.1	2596.3
65°	1441.7	1468.3	1761.4	2340.4	2964.3	3235.4	3321.2	3318.1	3350.7	3631.1	2757.6
67.5°	1240.2	1260.7	1542.9	2137.2	2930.9	3414.5	3626.0	3615.8	3576.3	3866.2	2820.9
70°	958.8	966.2	1216.0	1781.1	2618.4	3483.3	3920.7	3915.5	3714.6	3824.0	2588.7
71°	792.6	816.9	1071.7	1572.0	2409.1	3419.8	3949.3	3952.4	3679.9	3709.2	2428.8
72.5°	460.2	481.0	776.8	1207.3	2045.3	3154.4	3801.2	3823.5	3517.4	3373.8	2074.6
75°	98.7	105.5	288.0	584.4	1125.0	2210.8	3000.2	3080.1	2866.8	2295.1	1250.4
77.5°	68.6	74.1	123.4	265.1	371.9	1092.4	1863.7	1953.8	1712.7	862.5	400.2
80°	54.3	60.6	96.2	131.0	100.5	352.3	873.0	928.1	571.2	192.5	67.4
82.5°	30.3	36.0	75.1	70.7	38.6	67.0	244.4	276.3	114.3	38.8	15.9
85°	8.8	10.7	48.3	51.4	16.4	12.9	41.7	51.7	21.7	10.2	7.2
87.5°	0.0	0.0	23.4	19.7	4.8	1.9	3.8	4.3	4.3	4.3	4.8
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°	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1	1023.1
2.5°	1027.1	1028.8	1022.8	1015.0	1006.7	996.5	985.8	977.4	977.1	973.1	969.1
5°	1039.8	1038.9	1022.4	997.4	967.9	937.1	907.8	874.7	863.7	850.2	845.7
7.5°	1063.2	1056.5	1021.7	966.9	902.1	837.8	771.3	704.4	675.8	650.0	645.6
10°	1092.4	1079.8	1017.2	921.2	802.3	683.7	583.3	492.4	452.4	421.6	420.2
12.5°	1122.9	1103.6	1004.6	852.1	671.6	504.8	389.2	299.7	266.3	244.9	246.8
15°	1154.8	1126.1	977.4	758.9	522.6	342.5	239.1	186.5	173.2	167.7	169.2
17.5°	1187.4	1141.5	939.5	646.8	375.7	221.1	165.5	150.8	150.8	151.9	152.5
20°	1215.9	1149.8	883.8	521.0	254.7	161.1	144.9	142.7	143.9	145.8	146.1
22.5°	1244.0	1150.4	811.1	393.5	178.2	141.0	138.0	136.9	137.7	139.8	140.1
25°	1266.8	1144.6	720.1	279.9	142.2	132.9	131.5	131.0	131.5	134.1	134.1
27.5°	1276.1	1123.9	609.1	196.7	127.4	123.9	123.4	123.9	124.5	126.5	126.7
30°	1277.1	1087.7	488.1	142.4	115.5	111.7	112.7	114.3	113.6	113.2	113.6
32.5°	1279.5	1045.8	370.2	117.2	105.5	99.6	98.4	98.4	95.5	93.9	92.9
35°	1287.3	996.5	268.5	105.3	95.3	88.4	83.8	78.6	73.1	70.2	69.6
37.5°	1299.7	944.8	192.3	97.4	86.3	78.3	69.8	60.6	52.6	50.5	50.5
40°	1322.3	891.4	142.2	91.2	79.1	69.3	56.5	44.3	37.2	36.0	36.0
42.5°	1358.0	835.1	113.4	85.8	72.8	60.0	43.1	32.1	26.9	26.2	26.0
45°	1395.2	773.3	99.1	80.5	66.2	49.3	32.0	23.8	20.7	20.0	20.0
47.5°	1432.3	707.2	92.2	75.5	59.8	38.4	23.8	18.8	17.4	17.4	17.6
50°	1463.8	638.4	87.2	70.1	51.4	29.1	18.8	15.9	15.5	16.4	16.7
52.5°	1471.7	570.8	81.0	63.2	41.2	22.2	15.5	14.1	14.1	14.1	14.1
55°	1466.9	518.3	72.8	54.6	30.5	17.6	13.3	12.4	12.1	12.1	12.1
57.5°	1483.1	487.4	58.4	42.4	21.9	14.3	11.6	11.0	10.5	10.2	10.2
60°	1515.7	467.2	41.7	30.5	16.4	11.9	10.0	9.3	8.6	8.1	8.1
62.5°	1559.1	449.5	30.9	22.6	12.7	9.5	8.4	7.6	6.7	6.1	6.1
65°	1592.5	418.1	23.6	17.0	9.5	7.6	6.4	6.1	4.8	4.3	4.0
67.5°	1541.4	349.0	19.1	12.4	7.2	6.0	5.0	4.8	2.9	2.4	2.4
70°	1322.1	242.9	15.3	9.0	5.2	4.8	4.0	3.1	2.1	1.9	1.9
71°	1198.9	203.0	13.8	7.6	4.6	4.6	3.8	2.6	1.9	1.7	1.7
72.5°	995.9	144.1	11.6	6.0	4.0	4.8	4.0	2.4	1.9	1.7	1.4
75°	578.1	60.3	8.1	4.0	3.1	5.7	5.2	2.1	1.4	1.2	1.2
77.5°	173.9	22.2	4.6	2.6	2.4	5.0	6.0	1.9	0.7	0.3	0.3
80°	31.7	9.5	2.9	1.7	1.7	3.1	4.6	0.9	0.0	0.0	0.0
82.5°	11.2	4.8	1.7	0.9	0.7	1.4	2.1	0.0	0.0	0.0	0.0
85°	6.4	3.4	0.9	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0
87.5°	4.3	0.9	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)