

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: P382839

Luminaire Tested: **GLEON-SA2A-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8716.5 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

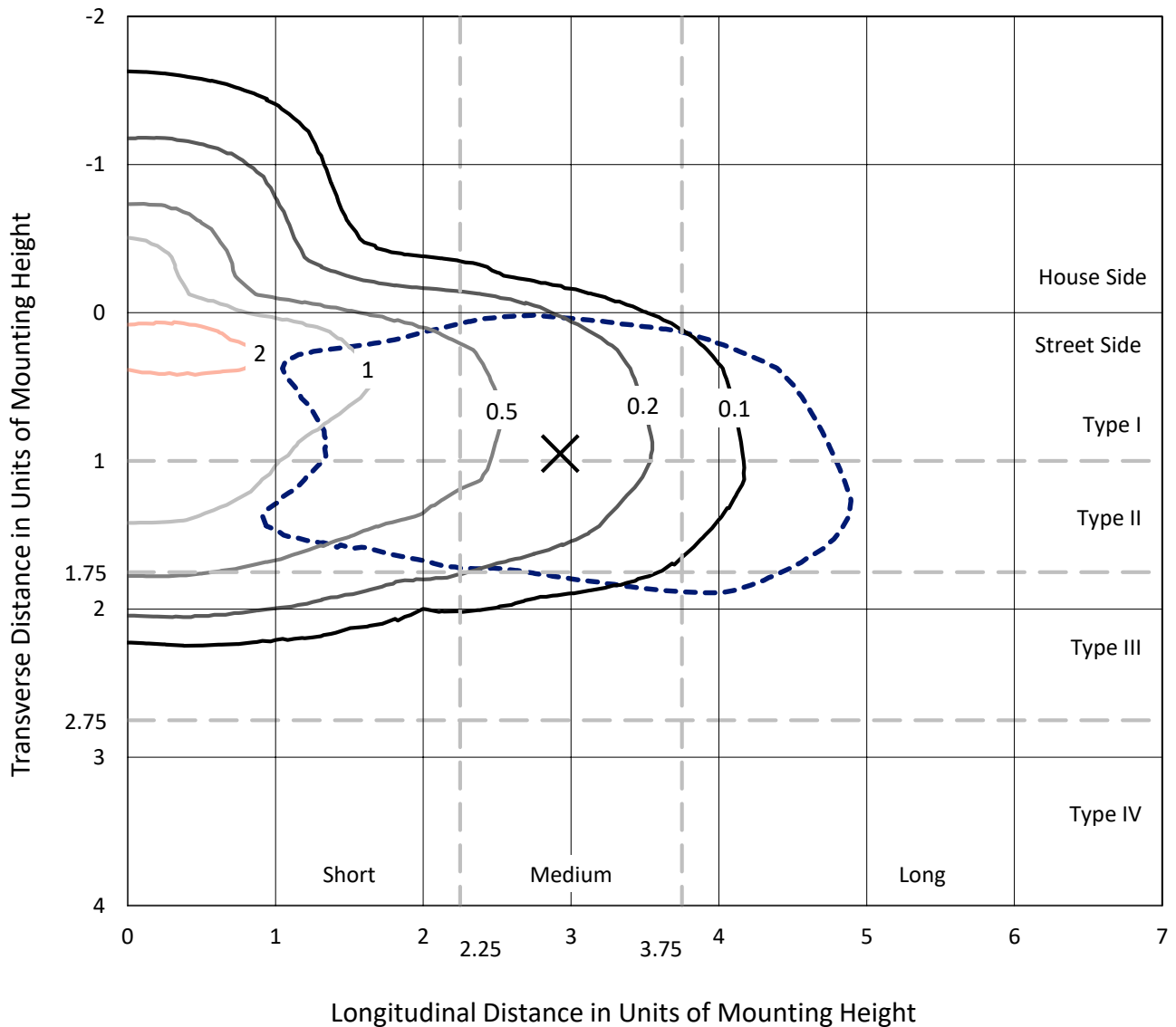
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

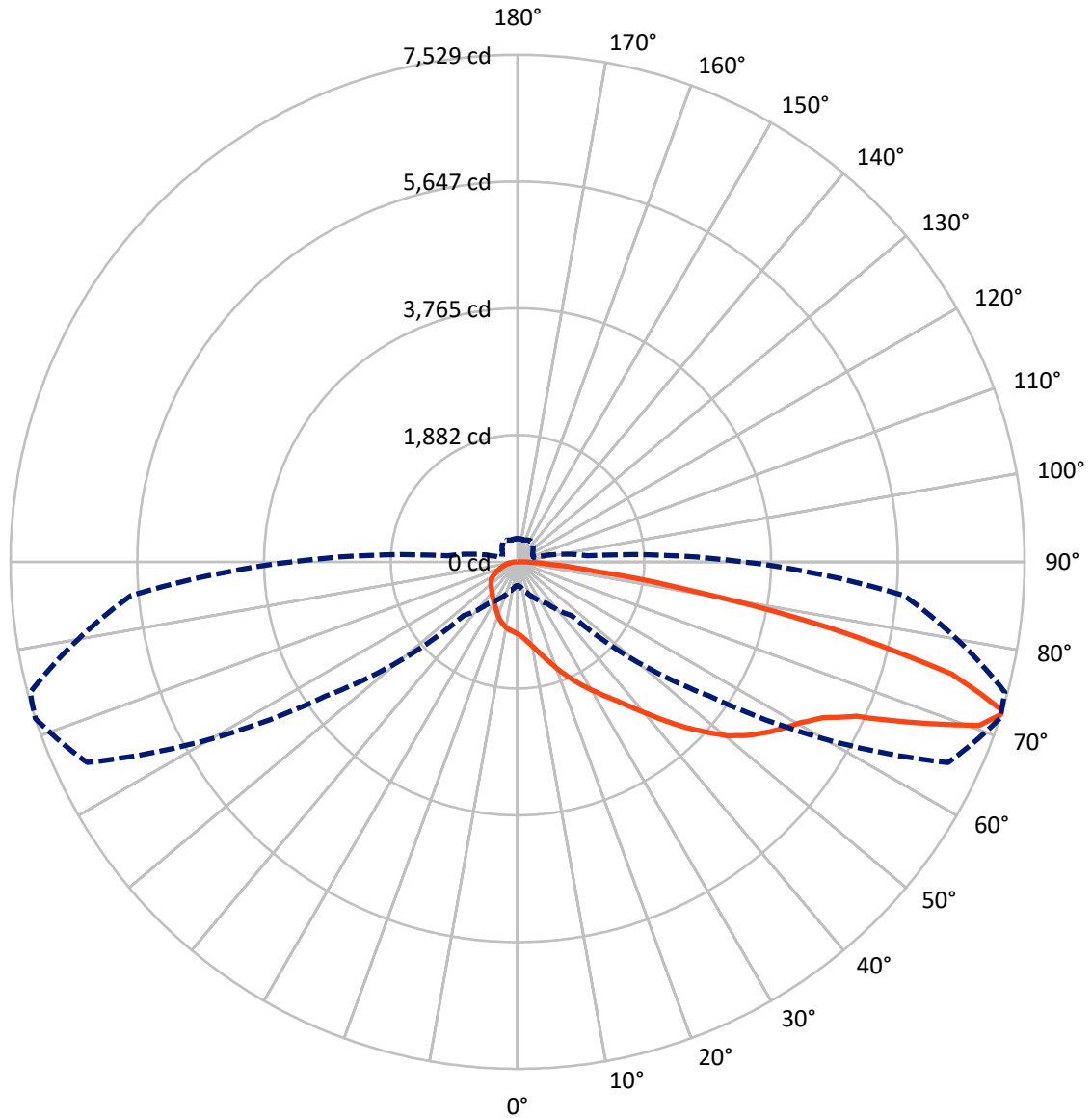
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1617.0	0.0	1617.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7099.5	0.0	7099.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	8716.5	0.0	8716.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.2
10°-20°	347.2	4.0
20°-30°	608.5	7.0
30°-40°	902.2	10.4
40°-50°	1319.5	15.1
50°-60°	1815.6	20.8
60°-70°	2021.3	23.2
70°-80°	1369.6	15.7
80°-90°	225.1	2.6
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°	8716.5	100.0
0°-180°	8716.5	100.0

**Coefficient of Utilization**

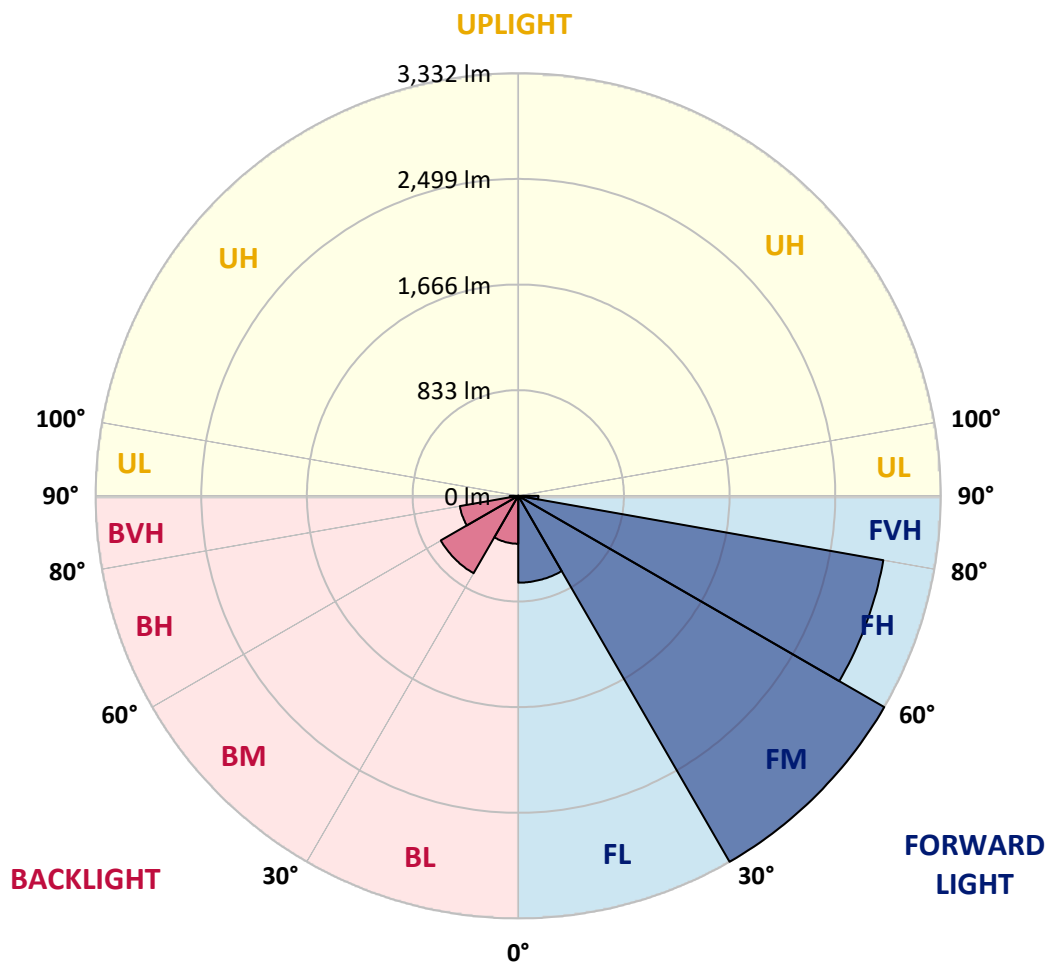


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.2	7.9			
FM (30°-60°)	3332.4	38.2			
FH (60°-80°)	2923.2	33.5			G2/5000
FVH (80°-90°)	158.8	1.8			G2/225
BL (0°-30°)	378.0	4.3	B1/500		
BM (30°-60°)	704.8	8.1	B1/1000		
BH (60°-80°)	467.8	5.4	B1/500		G1/500
BVH (80°-90°)	66.3	0.8			G1/100
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°	55°	65°	72°	75°	85°
0°	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4
2.5°	1184.6	1182.8	1176.5	1176.5	1164.5	1154.3	1135.1	1122.1	1106.9	1101.5	1083.5
5°	1299.2	1299.9	1292.1	1286.7	1269.0	1247.3	1214.6	1184.9	1155.2	1143.2	1106.3
7.5°	1395.6	1394.4	1392.3	1387.8	1371.2	1349.1	1304.9	1260.8	1217.0	1199.0	1135.4
10°	1457.4	1460.1	1461.9	1464.0	1457.1	1441.2	1399.5	1345.8	1288.4	1263.8	1170.2
12.5°	1488.6	1493.5	1501.8	1516.3	1527.6	1525.9	1495.5	1438.5	1370.4	1339.5	1213.7
15°	1507.0	1513.2	1526.4	1552.2	1584.4	1602.7	1594.6	1542.9	1467.0	1428.9	1266.8
17.5°	1518.3	1523.5	1543.9	1578.4	1626.1	1674.7	1696.0	1652.8	1576.3	1532.8	1327.7
20°	1526.2	1530.1	1555.6	1596.1	1657.9	1735.4	1794.7	1783.9	1696.6	1640.2	1391.4
22.5°	1543.6	1546.8	1571.1	1611.9	1680.4	1780.4	1889.9	1906.1	1823.6	1759.7	1459.5
25°	1592.2	1592.2	1612.6	1641.1	1705.3	1819.4	1970.3	2042.0	1953.3	1878.8	1522.5
27.5°	1684.9	1684.1	1691.5	1701.4	1750.0	1859.0	2042.0	2162.1	2087.7	2006.4	1583.8
30°	1794.7	1800.8	1801.7	1796.9	1819.7	1908.6	2108.4	2288.8	2223.0	2135.4	1646.5
32.5°	1936.1	1940.0	1935.5	1919.6	1916.3	1978.7	2173.5	2421.5	2369.5	2270.2	1703.8
35°	2115.6	2108.1	2094.0	2061.6	2030.7	2072.7	2247.9	2554.1	2534.0	2433.1	1782.8
37.5°	2308.0	2308.3	2290.9	2217.4	2174.7	2192.8	2350.6	2704.5	2733.0	2627.1	1883.9
40°	2462.3	2470.4	2481.2	2384.5	2329.3	2354.2	2481.2	2878.9	2968.3	2856.9	2015.7
42.5°	2570.0	2579.3	2609.9	2549.3	2492.0	2538.2	2634.8	3064.9	3232.4	3122.3	2169.9
45°	2684.1	2689.1	2710.7	2684.6	2648.0	2752.2	2808.0	3257.6	3511.7	3405.0	2342.5
47.5°	2804.1	2809.5	2831.7	2814.3	2795.1	2952.1	2988.7	3439.2	3779.5	3715.6	2526.7
50°	2952.4	2956.0	2976.9	2945.5	2951.4	3102.7	3150.1	3605.7	4060.2	3994.7	2711.6
52.5°	3154.7	3155.5	3184.7	3156.2	3128.0	3213.2	3289.1	3762.7	4280.1	4249.2	2896.6
55°	3313.1	3322.7	3418.1	3412.2	3396.0	3313.4	3405.3	3912.1	4476.4	4491.1	3092.8
57.5°	3212.0	3249.5	3442.7	3579.0	3711.7	3562.8	3562.2	4080.6	4658.9	4728.5	3308.6
60°	2813.1	2864.1	3148.9	3451.2	3866.2	3996.8	3888.2	4286.1	4843.1	4963.8	3579.0
62.5°	2009.1	2093.1	2479.0	2961.7	3654.4	4284.3	4551.4	4612.4	5093.8	5236.3	3930.5
65°	1015.7	1079.3	1402.8	1984.1	2919.7	4096.5	5272.4	5326.7	5529.3	5655.9	4471.6
67.5°	617.1	641.1	798.9	1103.6	1790.0	3190.9	5507.7	6517.3	6372.0	6439.2	5243.2
70°	454.7	472.4	570.9	732.9	1029.5	1872.5	4785.5	7367.0	7271.5	7264.0	5813.5
72°	354.2	367.0	454.1	592.2	752.7	1123.4	3468.6	7053.3	7529.0	7491.2	5761.2
72.5°	335.8	347.3	426.5	557.3	711.3	1018.4	3118.6	6841.8	7510.4	7493.3	5693.7
75°	264.4	272.5	315.7	431.0	556.7	577.7	1708.9	5302.1	6662.5	6939.6	5121.1
77.5°	218.8	220.0	242.8	313.7	434.0	408.5	839.4	3678.7	4770.8	5075.4	3627.6
80°	178.3	179.8	190.6	220.0	328.4	302.2	398.6	2115.3	2671.1	2674.5	1725.1
82.5°	142.0	142.2	154.3	160.9	235.9	216.1	228.4	993.1	1167.2	1122.8	620.0
85°	100.0	97.8	150.6	132.1	154.3	138.6	126.0	393.2	482.6	461.6	194.2
87.5°	33.3	34.6	66.9	85.5	90.1	78.6	56.1	150.6	182.2	180.7	61.5
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°	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4
2.5°	1077.8	1068.1	1054.0	1038.4	1026.1	1013.5	1004.2	999.5	994.1	989.5	994.9
5°	1089.2	1071.2	1041.1	1011.8	990.1	971.0	957.1	949.9	943.3	938.8	939.4
7.5°	1107.8	1078.6	1028.2	985.3	955.3	934.6	920.5	915.7	911.5	910.3	911.8
10°	1127.5	1084.7	1011.1	954.1	919.9	902.8	896.5	899.8	902.8	905.5	908.4
12.5°	1150.1	1090.1	986.2	917.5	888.4	881.8	888.0	902.5	913.0	919.3	923.2
15°	1179.5	1094.8	957.4	880.9	861.4	868.9	890.2	915.1	933.4	945.1	946.9
17.5°	1206.5	1094.6	920.5	844.0	839.4	861.4	893.4	928.6	953.2	969.7	973.0
20°	1234.4	1086.5	877.6	807.9	817.2	853.3	894.9	937.3	967.0	986.2	990.7
22.5°	1260.6	1072.4	830.5	775.2	798.6	842.5	889.3	932.2	961.9	977.5	982.3
25°	1278.3	1047.7	782.7	747.7	782.1	829.3	870.6	905.2	927.4	935.2	936.4
27.5°	1287.2	1015.7	737.7	723.6	765.0	807.7	836.2	853.3	859.5	859.0	857.8
30°	1288.4	973.3	699.0	704.1	745.2	775.8	789.3	786.0	777.9	764.1	765.4
32.5°	1284.5	925.6	666.6	685.5	720.0	737.1	737.7	721.8	700.2	678.3	672.3
35°	1285.7	878.7	638.1	664.5	689.4	696.9	690.0	666.6	637.2	609.0	603.0
37.5°	1298.9	837.9	613.4	640.2	655.4	657.3	647.3	622.7	601.1	573.6	571.1
40°	1330.4	808.9	590.0	612.9	621.5	622.5	608.4	591.0	592.7	578.0	577.7
42.5°	1387.2	796.2	569.4	584.4	589.8	591.5	580.7	569.6	585.3	575.6	572.3
45°	1460.4	799.3	551.9	556.4	566.4	574.8	568.2	554.6	560.6	519.0	505.1
47.5°	1545.1	818.5	538.2	532.5	549.5	565.4	555.2	534.8	513.6	472.1	464.3
50°	1644.1	848.2	525.5	508.7	531.3	552.9	542.6	513.6	481.4	461.3	458.6
52.5°	1747.3	884.5	512.9	482.6	508.2	543.2	538.2	508.7	469.1	449.3	445.7
55°	1864.4	921.1	497.0	452.3	483.2	538.7	536.0	491.3	459.8	448.7	446.0
57.5°	2010.0	962.8	476.0	420.8	459.8	522.5	514.1	480.8	450.2	441.8	440.9
60°	2199.7	1024.3	445.7	387.2	431.3	497.6	495.8	465.5	434.8	428.9	427.7
62.5°	2484.2	1126.1	404.0	353.5	399.4	455.2	471.8	444.8	418.6	418.4	419.0
65°	2925.3	1279.1	358.6	324.2	367.4	419.6	443.9	423.5	402.1	408.2	409.0
67.5°	3436.8	1406.1	314.2	295.3	334.6	385.7	418.6	402.1	380.3	395.9	396.2
70°	3607.0	1292.6	275.2	266.8	300.7	353.0	391.3	378.8	356.6	372.2	370.7
72°	3356.6	1043.5	250.0	245.2	275.2	325.9	367.0	356.9	335.0	345.4	341.5
72.5°	3277.7	994.9	243.7	239.8	268.3	319.1	360.8	351.5	329.6	338.5	335.0
75°	2923.8	864.1	209.5	210.3	234.1	285.4	325.3	322.3	299.9	300.7	299.5
77.5°	2120.7	633.5	176.4	182.5	199.3	250.9	289.6	287.8	263.3	258.7	257.9
80°	984.1	323.2	143.7	146.4	163.9	209.8	247.0	244.6	224.8	219.1	215.7
82.5°	337.0	153.7	108.1	109.8	127.0	169.0	214.3	212.8	196.3	185.2	178.3
85°	120.4	76.6	75.6	73.9	90.6	132.9	186.7	178.6	154.3	131.4	130.9
87.5°	39.0	32.7	39.0	38.8	52.8	90.1	135.6	115.5	112.0	93.1	91.2
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)