

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: P450687

Luminaire Tested: **GALN-SA1C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6542 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

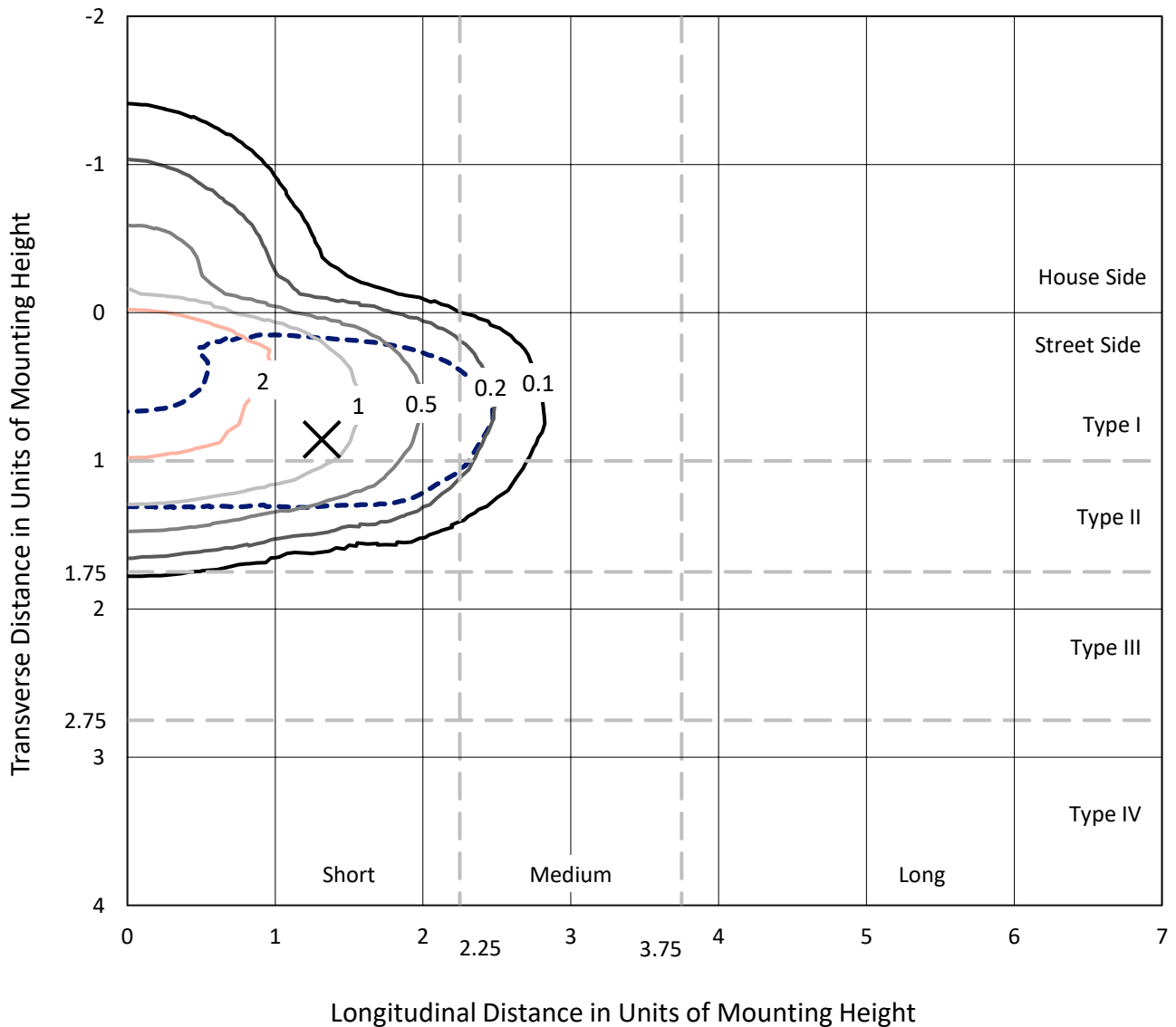
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

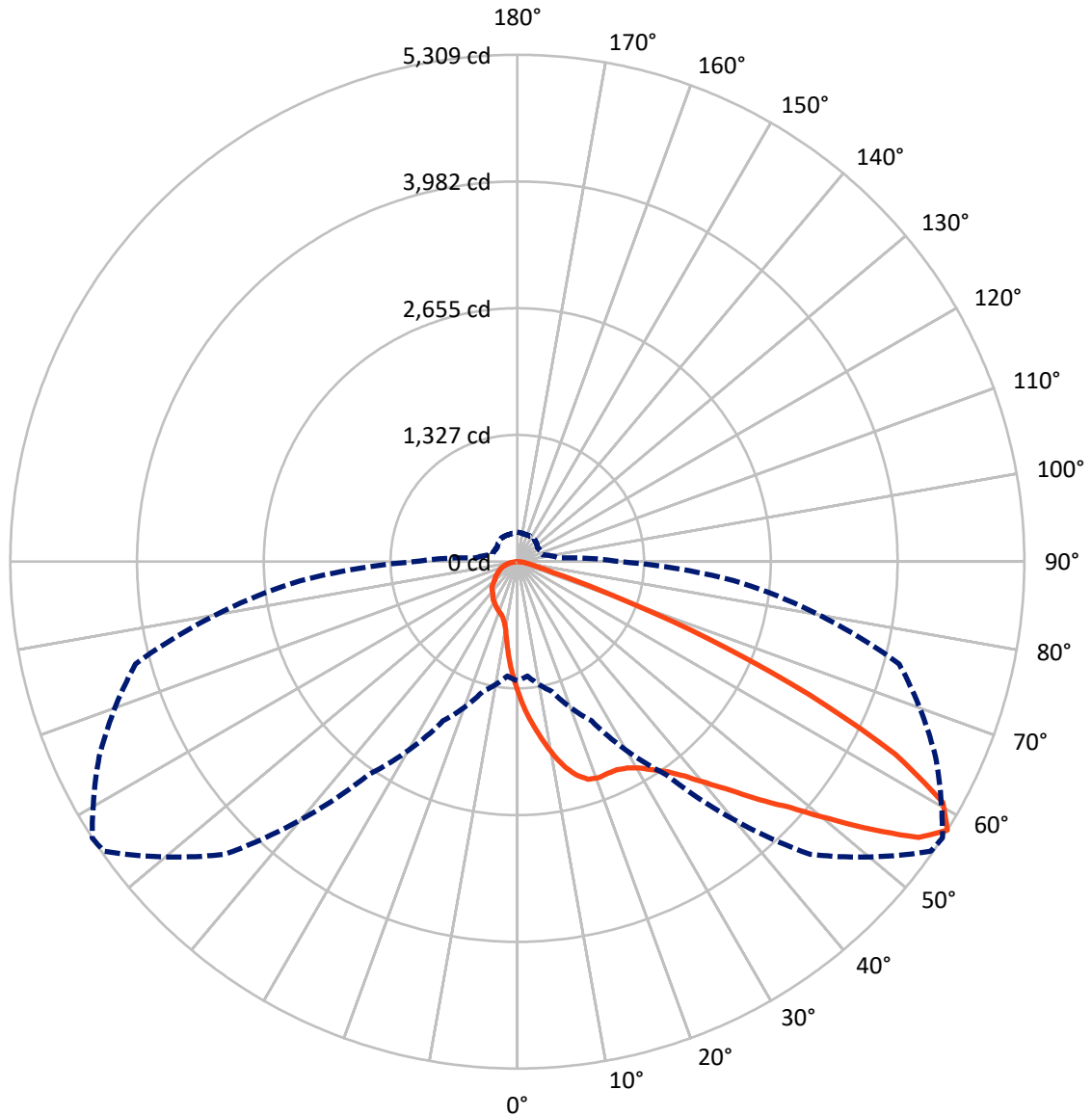
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.8	0.0	994.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5547.1	0.0	5547.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	6542.0	0.0	6542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	2.0
10°-20°	389.3	6.0
20°-30°	646.4	9.9
30°-40°	973.7	14.9
40°-50°	1461.9	22.3
50°-60°	1638.6	25.0
60°-70°	959.0	14.7
70°-80°	283.7	4.3
80°-90°	57.3	0.9
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°	6542.0	100.0
0°-180°	6542.0	100.0

Coefficient of Utilization



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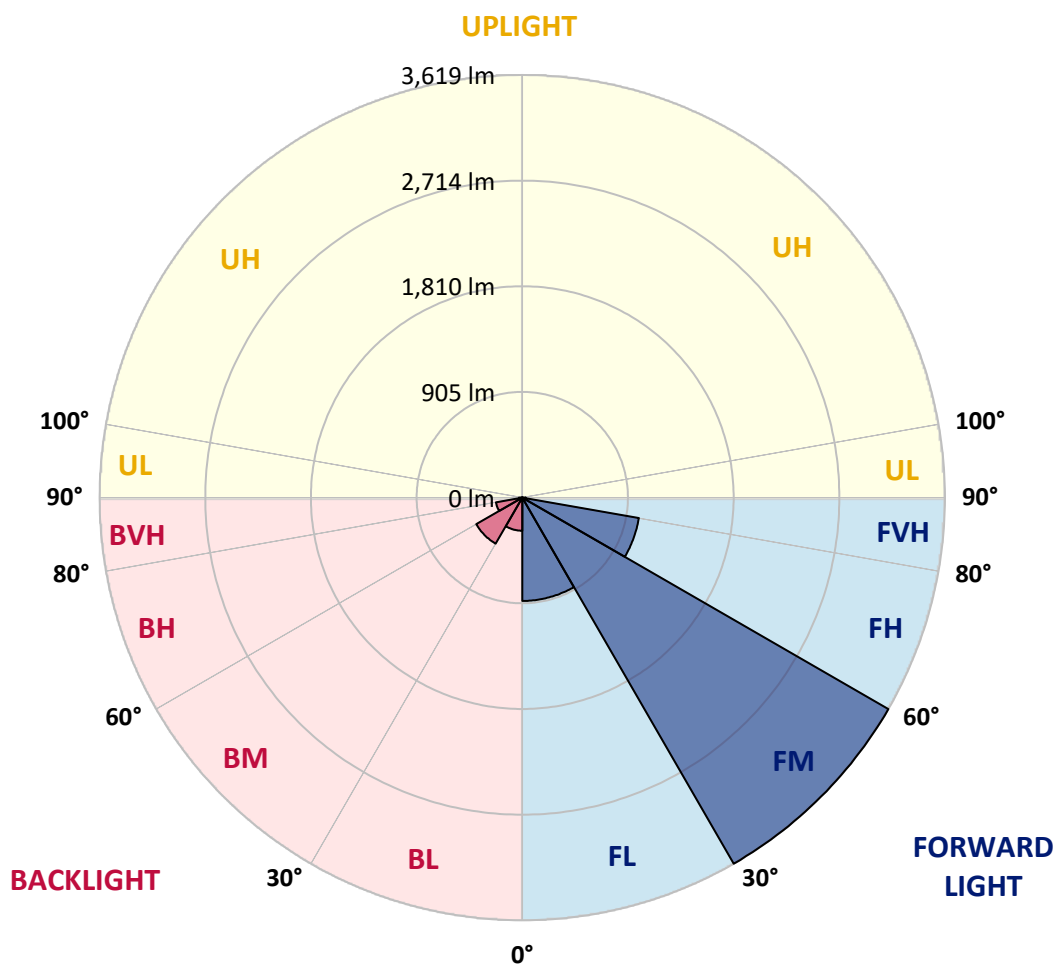
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.3	13.5			
FM	(30°-60°)	3619.3	55.3			
FH	(60°-80°)	1013.7	15.5			G1/1800
FVH	(80°-90°)	29.7	0.5			G1/100
BL	(0°-30°)	283.5	4.3	B1/500		
BM	(30°-60°)	454.9	7.0	B1/1000		
BH	(60°-80°)	228.9	3.5	B1/500		G1/500
BVH	(80°-90°)	27.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1707.8	1689.2	1674.5	1661.6	1644.8	1599.3	1553.8	1553.1	1516.9	1461.1	1403.8
5°	1986.0	1961.0	1964.2	1924.1	1884.0	1818.1	1721.8	1716.7	1639.8	1535.2	1428.8
7.5°	2167.2	2167.6	2157.6	2134.7	2091.3	2016.5	1907.3	1882.5	1775.5	1616.8	1457.5
10°	2157.9	2167.6	2184.4	2204.1	2217.4	2180.5	2080.9	2050.9	1911.6	1715.7	1489.4
12.5°	2034.0	2049.1	2073.1	2122.5	2202.3	2263.2	2229.2	2204.8	2069.1	1814.1	1524.4
15°	1956.7	1965.6	1978.9	2012.2	2098.1	2243.9	2332.0	2319.1	2217.7	1925.5	1563.8
17.5°	1933.0	1942.0	1946.3	1966.7	2027.9	2177.3	2372.4	2395.4	2349.5	2027.9	1603.6
20°	1956.7	1961.0	1961.0	1973.1	2021.1	2138.2	2370.6	2416.8	2457.7	2150.8	1640.8
22.5°	2018.6	2020.4	2017.9	2022.2	2058.0	2149.0	2353.8	2411.1	2545.0	2255.0	1669.8
25°	2119.3	2122.1	2105.6	2095.6	2121.8	2196.2	2363.1	2415.8	2613.4	2354.5	1689.2
27.5°	2233.5	2237.1	2217.0	2193.7	2205.9	2254.6	2399.6	2446.9	2664.6	2452.6	1701.3
30°	2373.5	2374.9	2341.3	2313.3	2305.5	2341.6	2462.0	2506.0	2728.4	2568.3	1719.6
32.5°	2516.7	2527.5	2484.2	2444.8	2431.5	2442.6	2554.0	2596.6	2804.3	2692.6	1749.0
35°	2711.6	2713.3	2661.4	2613.4	2569.7	2584.1	2671.8	2702.6	2909.2	2836.2	1790.5
37.5°	2954.7	2971.2	2899.6	2810.0	2756.3	2735.5	2814.3	2848.0	3056.4	3012.4	1853.2
40°	3224.7	3230.8	3169.6	3113.7	3015.6	2955.4	3009.9	3046.4	3238.0	3222.6	1925.9
42.5°	3394.5	3407.7	3412.4	3406.6	3332.9	3231.9	3252.6	3269.8	3452.8	3419.9	2000.4
45°	3451.8	3471.5	3538.1	3679.2	3687.0	3587.5	3539.1	3555.6	3687.0	3619.0	2071.6
47.5°	3356.9	3390.5	3513.3	3802.7	4019.3	4026.9	3881.1	3845.0	3900.5	3784.1	2123.2
50°	3111.6	3118.7	3306.7	3725.7	4175.1	4446.9	4296.2	4228.8	4103.1	3906.2	2158.6
52.5°	2732.0	2740.2	2897.8	3368.0	4079.2	4740.6	4781.7	4661.4	4309.1	4001.1	2181.9
55°	2027.9	2075.6	2248.9	2703.3	3624.4	4713.0	5167.8	5099.4	4557.9	4076.3	2218.4
57.5°	1246.9	1203.2	1408.8	1839.2	2725.9	4334.1	5287.0	5309.2	4831.9	4139.3	2279.7
60°	573.7	582.3	667.1	948.6	1661.6	3390.5	4979.8	5120.2	4983.4	4137.2	2295.1
62.5°	395.3	387.5	366.0	416.5	757.7	2144.3	4206.3	4444.1	4679.7	4008.6	2233.8
65°	353.4	345.6	304.0	290.1	348.1	934.6	3057.8	3357.9	3940.2	3684.2	2081.3
67.5°	330.2	319.4	276.5	249.2	248.5	372.1	1803.0	2164.4	2922.5	3114.8	1803.4
70°	305.8	297.2	254.6	224.5	211.6	233.8	792.5	1037.4	1897.6	2244.6	1404.8
72.5°	281.5	271.4	233.1	200.9	184.1	175.1	303.7	395.0	1072.2	1345.8	861.2
75°	246.0	241.0	208.4	181.9	163.7	141.5	192.7	219.9	512.8	618.1	432.2
77.5°	215.2	209.8	185.1	159.0	145.7	115.0	136.8	149.3	216.3	250.7	195.2
80°	157.6	162.9	156.1	140.4	130.0	90.2	92.0	102.4	128.6	142.2	119.2
82.5°	99.9	109.9	120.3	108.1	98.5	71.3	63.7	67.7	87.7	93.1	53.0
85°	41.9	42.6	69.8	65.9	56.2	42.3	38.3	40.5	46.9	49.1	24.7
87.5°	16.1	15.8	24.7	22.9	17.5	12.2	12.2	13.6	18.6	17.2	7.9
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°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1379.1	1353.6	1303.1	1240.5	1194.6	1143.1	1097.6	1065.0	1052.8	1047.1	1036.4
5°	1378.0	1327.8	1223.3	1113.7	1025.6	935.4	859.1	809.7	805.4	772.4	769.2
7.5°	1378.3	1301.7	1135.2	974.0	839.8	747.4	684.3	667.9	648.2	643.2	645.7
10°	1379.4	1268.4	1040.6	835.8	705.8	645.3	621.7	615.2	615.9	618.1	618.4
12.5°	1380.8	1236.2	942.5	730.9	630.6	605.6	603.0	608.8	614.9	619.5	620.6
15°	1382.6	1199.3	846.9	646.4	593.0	590.9	599.1	608.8	617.4	624.2	625.2
17.5°	1380.5	1156.3	766.7	594.5	572.2	582.6	596.2	608.4	616.3	622.7	623.5
20°	1375.5	1108.3	689.3	557.9	559.4	576.2	590.9	602.3	610.9	614.1	616.7
22.5°	1356.1	1051.0	622.0	529.6	544.0	567.2	584.8	591.6	581.9	575.1	576.9
25°	1323.2	976.5	559.4	506.7	530.0	554.7	572.6	556.1	548.3	545.4	546.8
27.5°	1282.0	894.9	512.1	482.7	512.1	540.7	535.7	532.9	529.3	524.6	525.7
30°	1237.6	815.0	472.0	464.1	492.7	509.2	511.4	516.0	512.1	504.9	507.8
32.5°	1196.4	739.8	441.5	448.3	479.1	476.6	492.7	498.1	479.9	455.9	456.9
35°	1161.3	670.0	418.6	432.9	455.9	456.9	473.1	454.4	434.7	423.3	424.0
37.5°	1134.8	615.6	403.6	419.7	426.1	439.8	431.2	421.5	419.0	411.1	411.5
40°	1119.1	568.0	393.9	409.3	408.2	417.5	390.0	399.6	403.2	400.7	401.1
42.5°	1103.3	534.3	383.9	395.0	394.6	376.4	370.3	378.5	387.8	388.9	388.2
45°	1090.8	508.1	373.5	373.1	380.3	351.7	349.9	354.9	368.1	374.6	374.2
47.5°	1076.8	486.3	357.7	347.7	349.9	336.3	333.4	335.5	351.7	362.0	364.9
50°	1059.3	464.5	338.0	324.4	315.5	321.9	322.7	323.0	339.1	350.9	353.4
52.5°	1045.3	448.0	315.5	305.5	294.7	309.0	314.4	315.1	324.8	334.5	336.3
55°	1053.5	438.7	293.3	286.1	276.5	295.8	306.2	307.6	309.8	316.9	318.0
57.5°	1078.2	440.8	275.4	266.1	258.9	280.0	297.6	298.7	297.2	305.8	307.3
60°	1085.8	439.8	262.1	243.9	239.6	263.2	285.0	287.2	286.8	299.4	301.9
62.5°	1054.3	426.1	248.9	225.2	222.4	246.0	267.5	276.1	277.9	295.8	299.0
65°	980.1	398.2	231.3	205.6	205.6	227.8	250.7	262.5	267.5	291.5	295.1
67.5°	882.4	365.3	213.4	188.7	188.0	210.2	232.8	244.9	252.8	285.4	287.6
70°	732.3	320.9	191.2	170.5	170.5	190.5	210.9	225.6	237.1	273.9	273.9
72.5°	501.7	266.8	164.4	149.7	150.0	168.7	189.4	205.9	219.5	251.0	251.7
75°	317.3	208.4	135.0	127.5	128.9	146.5	168.0	185.1	212.4	248.2	249.2
77.5°	168.7	146.5	107.4	105.6	107.4	123.5	147.5	171.2	213.1	215.2	211.6
80°	109.2	103.8	84.9	81.3	82.0	99.6	131.4	162.6	171.2	173.3	165.4
82.5°	59.4	65.9	60.2	56.6	56.6	77.7	112.1	129.3	122.8	102.1	97.4
85°	25.4	30.8	31.2	27.2	26.1	48.0	75.2	70.5	65.5	62.7	62.0
87.5°	7.2	10.0	10.0	7.5	5.7	13.2	15.0	4.3	0.0	0.4	0.7
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)