

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: P450745

Luminaire Tested: **GALN-SA1C-750-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450745  
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-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7183 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

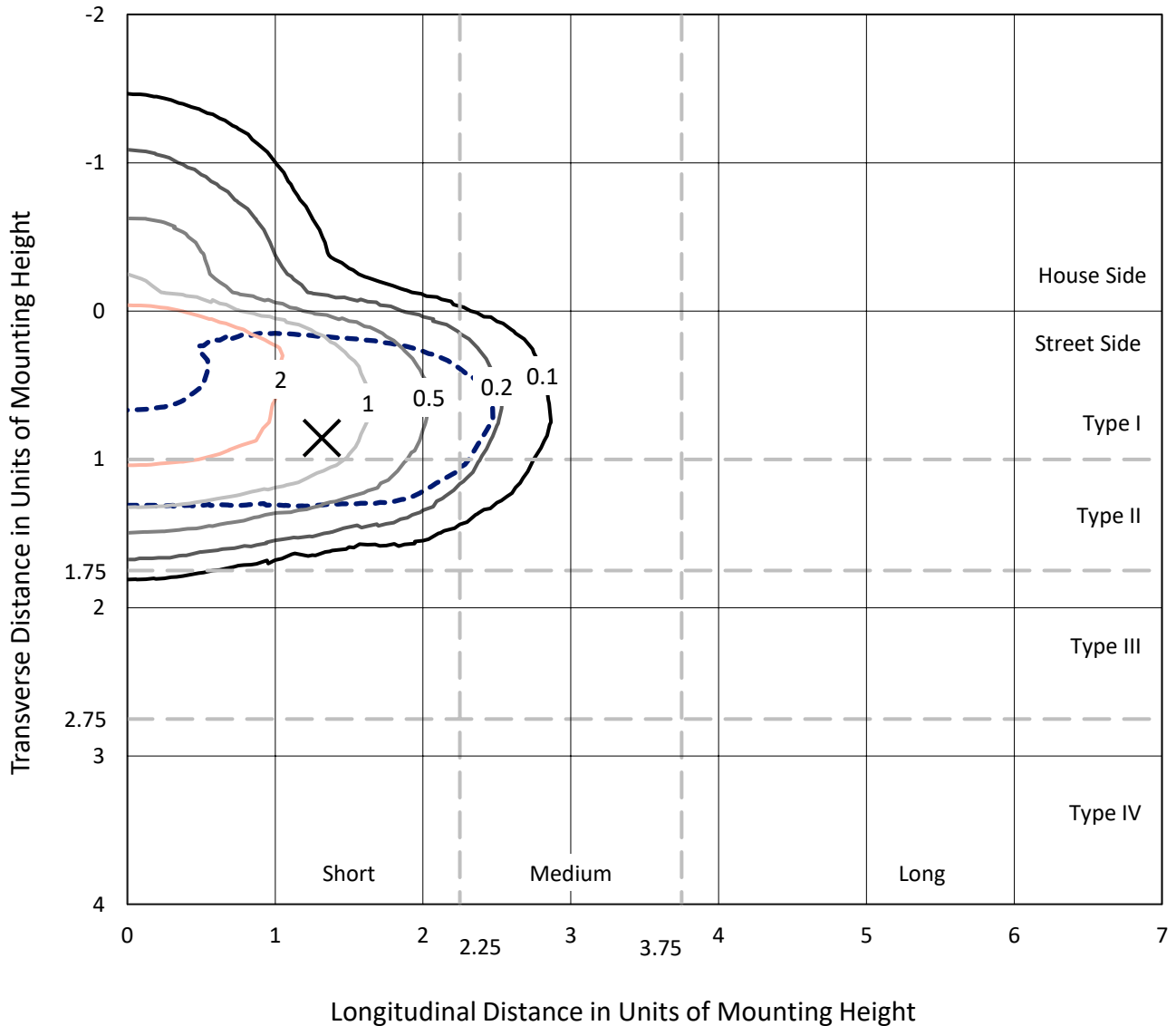
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

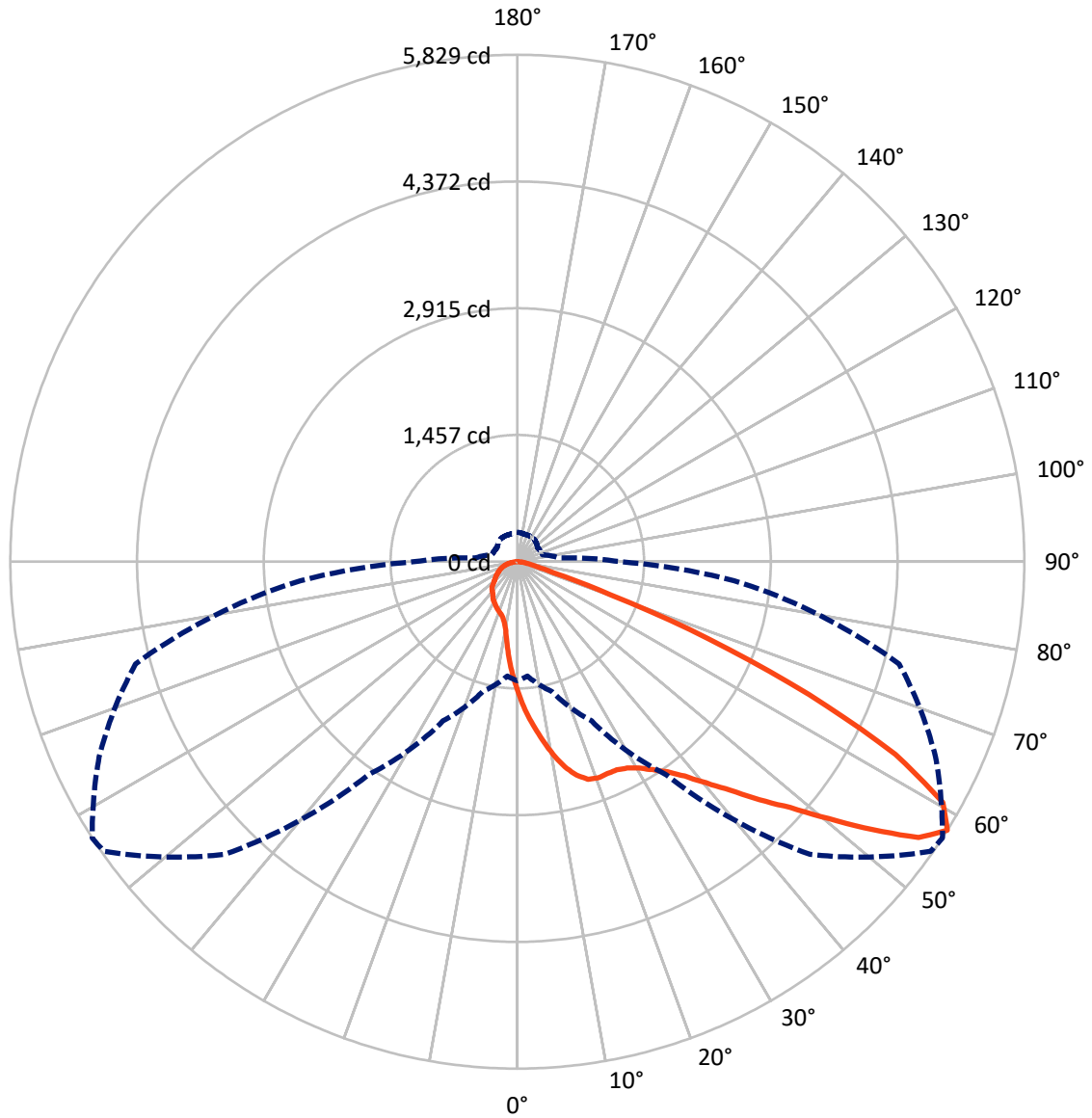
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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
<b>House Side</b>	Lumens	1092.3	0.0	1092.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	6090.7	0.0	6090.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	7183.0	0.0	7183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	2.0
10°-20°	427.4	6.0
20°-30°	709.8	9.9
30°-40°	1069.1	14.9
40°-50°	1605.1	22.3
50°-60°	1799.2	25.0
60°-70°	1053.0	14.7
70°-80°	311.5	4.3
80°-90°	63.0	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°	7183.0	100.0
0°-180°	7183.0	100.0

**Coefficient of Utilization**



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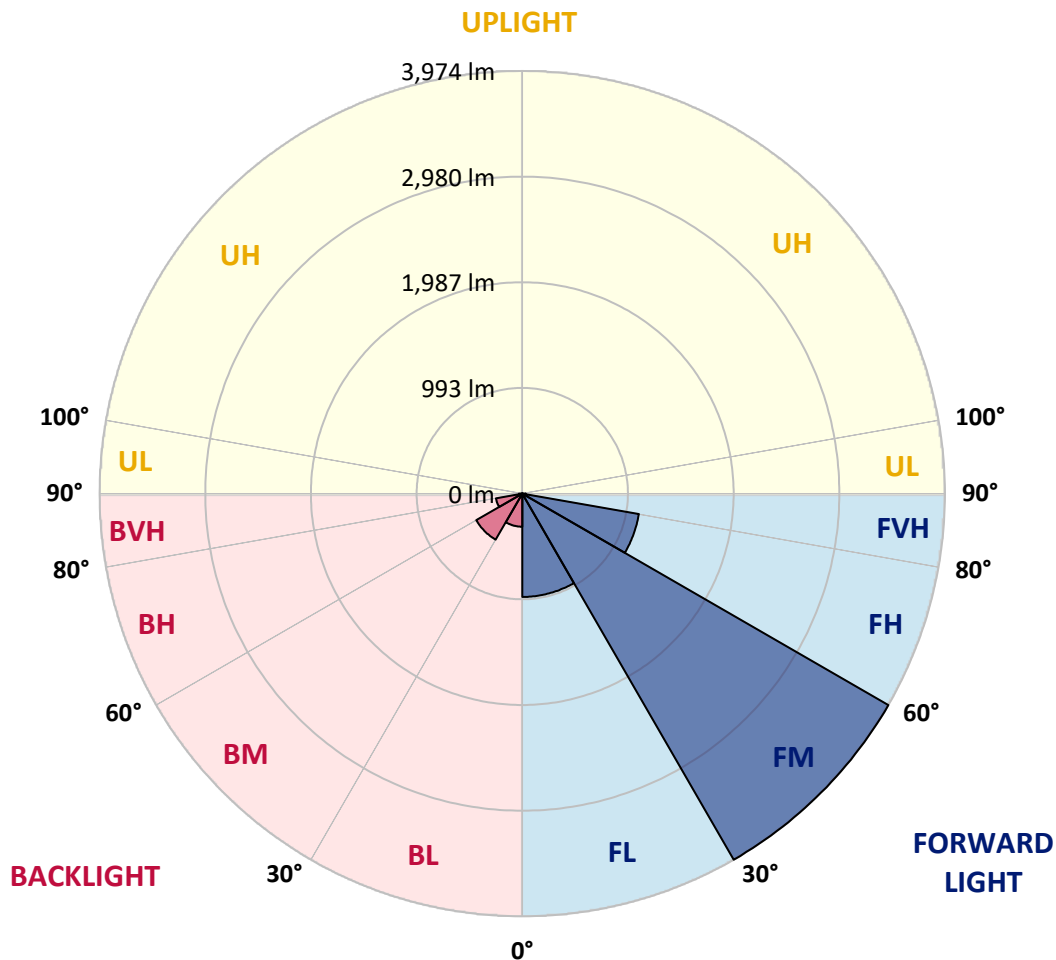
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.0	13.5			
FM	(30°-60°)	3973.9	55.3			
FH	(60°-80°)	1113.1	15.5			G1/1800
FVH	(80°-90°)	32.7	0.5			G1/100
BL	(0°-30°)	311.2	4.3	B1/500		
BM	(30°-60°)	499.5	7.0	B1/1000		
BH	(60°-80°)	251.3	3.5	B1/500		G1/500
BVH	(80°-90°)	30.3	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°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1875.1	1854.7	1838.6	1824.4	1805.9	1756.0	1706.1	1705.3	1665.6	1604.2	1541.3
5°	2180.6	2153.1	2156.7	2112.6	2068.6	1996.2	1890.5	1885.0	1800.4	1685.6	1568.8
7.5°	2379.6	2380.0	2369.0	2343.8	2296.2	2214.1	2094.1	2067.0	1949.4	1775.3	1600.3
10°	2369.4	2380.0	2398.5	2420.1	2434.6	2394.1	2284.8	2251.8	2098.9	1883.8	1635.3
12.5°	2233.3	2249.8	2276.2	2330.4	2418.1	2485.0	2447.6	2420.9	2271.9	1991.9	1673.8
15°	2148.4	2158.2	2172.8	2209.3	2303.7	2463.7	2560.5	2546.3	2435.0	2114.2	1717.1
17.5°	2122.4	2132.3	2137.0	2159.4	2226.6	2390.6	2604.9	2630.1	2579.7	2226.6	1760.7
20°	2148.4	2153.1	2153.1	2166.5	2219.2	2347.7	2602.9	2653.6	2698.5	2361.5	1801.6
22.5°	2216.4	2218.4	2215.6	2220.3	2259.7	2359.5	2584.4	2647.4	2794.4	2475.9	1833.4
25°	2326.9	2330.0	2312.0	2301.0	2329.7	2411.4	2594.7	2652.5	2869.5	2585.2	1854.7
27.5°	2452.3	2456.3	2434.2	2408.7	2422.1	2475.5	2634.8	2686.7	2925.7	2693.0	1868.0
30°	2606.1	2607.6	2570.7	2540.0	2531.4	2571.1	2703.2	2751.5	2995.7	2820.0	1888.1
32.5°	2763.3	2775.1	2727.6	2684.3	2669.8	2682.0	2804.2	2851.0	3079.1	2956.4	1920.3
35°	2977.2	2979.2	2922.2	2869.5	2821.5	2837.3	2933.6	2967.4	3194.3	3114.1	1966.0
37.5°	3244.2	3262.3	3183.7	3085.4	3026.4	3003.6	3090.1	3127.0	3355.9	3307.5	2034.8
40°	3540.7	3547.4	3480.1	3418.8	3311.1	3245.0	3304.8	3344.9	3555.2	3538.3	2114.6
42.5°	3727.1	3741.6	3746.7	3740.4	3659.4	3548.5	3571.4	3590.2	3791.1	3755.0	2196.4
45°	3790.0	3811.6	3884.7	4039.6	4048.3	3939.0	3885.9	3904.0	4048.3	3973.6	2274.6
47.5°	3685.8	3722.7	3857.6	4175.3	4413.2	4421.4	4261.4	4221.7	4282.6	4154.8	2331.2
50°	3416.4	3424.3	3630.7	4090.8	4584.2	4882.6	4717.1	4643.2	4505.2	4288.9	2370.2
52.5°	2999.7	3008.7	3181.7	3698.0	4478.8	5205.1	5250.3	5118.2	4731.3	4393.1	2395.7
55°	2226.6	2278.9	2469.2	2968.2	3979.5	5174.8	5674.1	5599.0	5004.5	4475.7	2435.8
57.5°	1369.1	1321.1	1546.8	2019.4	2993.0	4758.8	5805.1	5829.4	5305.3	4544.9	2503.1
60°	629.9	639.3	732.5	1041.6	1824.4	3722.7	5467.7	5621.8	5471.6	4542.5	2520.0
62.5°	434.1	425.4	401.8	457.3	832.0	2354.4	4618.4	4879.5	5138.2	4401.4	2452.7
65°	388.1	379.4	333.8	318.5	382.2	1026.2	3357.5	3686.9	4326.3	4045.1	2285.2
67.5°	362.5	350.7	303.5	273.7	272.9	408.5	1979.7	2376.4	3208.8	3420.0	1980.1
70°	335.8	326.3	279.6	246.5	232.4	256.8	870.1	1139.1	2083.5	2464.5	1542.5
72.5°	309.0	298.0	256.0	220.6	202.1	192.3	333.4	433.7	1177.2	1477.6	945.6
75°	270.1	264.6	228.8	199.7	179.7	155.3	211.5	241.4	563.0	678.6	474.6
77.5°	236.3	230.4	203.3	174.6	160.0	126.2	150.2	164.0	237.5	275.2	214.3
80°	173.0	178.9	171.4	154.1	142.7	99.1	101.1	112.5	141.2	156.1	130.9
82.5°	109.7	120.7	132.1	118.7	108.1	78.2	70.0	74.3	96.3	102.2	58.2
85°	46.0	46.8	76.7	72.3	61.7	46.4	42.1	44.4	51.5	53.9	27.1
87.5°	17.7	17.3	27.1	25.2	19.3	13.4	13.4	14.9	20.4	18.9	8.7
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°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1514.2	1486.3	1430.8	1362.0	1311.7	1255.1	1205.1	1169.3	1156.0	1149.7	1137.9
5°	1513.0	1458.0	1343.1	1222.8	1126.1	1027.0	943.3	889.0	884.3	848.1	844.6
7.5°	1513.4	1429.2	1246.4	1069.5	922.0	820.6	751.4	733.3	711.7	706.2	708.9
10°	1514.6	1392.7	1142.6	917.7	775.0	708.5	682.6	675.5	676.3	678.6	679.0
12.5°	1516.1	1357.3	1034.9	802.5	692.4	664.9	662.1	668.4	675.1	680.2	681.4
15°	1518.1	1316.8	929.9	709.7	651.1	648.8	657.8	668.4	677.9	685.3	686.5
17.5°	1515.8	1269.6	841.8	652.7	628.3	639.7	654.7	668.0	676.7	683.8	684.5
20°	1510.2	1216.9	756.9	612.6	614.2	632.6	648.8	661.3	670.8	674.3	677.1
22.5°	1489.0	1154.0	683.0	581.5	597.3	622.8	642.1	649.6	638.9	631.5	633.4
25°	1452.8	1072.2	614.2	556.4	581.9	609.1	628.7	610.6	602.0	598.8	600.4
27.5°	1407.6	982.6	562.3	530.0	562.3	593.7	588.2	585.1	581.1	576.0	577.2
30°	1358.9	894.9	518.2	509.6	541.0	559.1	561.5	566.6	562.3	554.4	557.5
32.5°	1313.7	812.3	484.8	492.3	526.1	523.3	541.0	546.9	526.9	500.5	501.7
35°	1275.1	735.7	459.6	475.4	500.5	501.7	519.4	499.0	477.3	464.8	465.5
37.5°	1246.0	675.9	443.1	460.8	467.9	482.8	473.4	462.8	460.0	451.4	451.8
40°	1228.7	623.6	432.5	449.4	448.2	458.5	428.2	438.8	442.7	440.0	440.4
42.5°	1211.4	586.6	421.5	433.7	433.3	413.2	406.6	415.6	425.8	427.0	426.2
45°	1197.7	557.9	410.1	409.7	417.6	386.1	384.1	389.7	404.2	411.3	410.9
47.5°	1182.3	534.0	392.8	381.8	384.1	369.2	366.1	368.4	386.1	397.5	400.7
50°	1163.1	510.0	371.2	356.2	346.4	353.5	354.3	354.7	372.4	385.3	388.1
52.5°	1147.7	491.9	346.4	335.4	323.6	339.3	345.2	346.0	356.6	367.2	369.2
55°	1156.8	481.7	322.0	314.2	303.5	324.8	336.2	337.8	340.1	348.0	349.2
57.5°	1183.9	484.0	302.4	292.1	284.3	307.5	326.7	327.9	326.3	335.8	337.4
60°	1192.2	482.8	287.8	267.8	263.0	289.0	313.0	315.3	314.9	328.7	331.5
62.5°	1157.6	467.9	273.3	247.3	244.2	270.1	293.7	303.2	305.1	324.8	328.3
65°	1076.2	437.2	254.0	225.7	225.7	250.1	275.2	288.2	293.7	320.1	324.0
67.5°	968.8	401.1	234.3	207.2	206.4	230.8	255.6	268.9	277.6	313.4	315.7
70°	804.1	352.3	210.0	187.2	187.2	209.2	231.6	247.7	260.3	300.8	300.8
72.5°	550.9	292.9	180.5	164.4	164.7	185.2	208.0	226.1	241.0	275.6	276.4
75°	348.4	228.8	148.2	140.0	141.5	160.8	184.4	203.3	233.2	272.5	273.7
77.5°	185.2	160.8	118.0	116.0	118.0	135.7	162.0	187.9	233.9	236.3	232.4
80°	119.9	114.0	93.2	89.3	90.0	109.3	144.3	178.5	187.9	190.3	181.7
82.5°	65.3	72.3	66.1	62.1	62.1	85.3	123.1	141.9	134.9	112.1	106.9
85°	27.9	33.8	34.2	29.9	28.7	52.7	82.6	77.5	72.0	68.8	68.0
87.5°	7.9	11.0	11.0	8.3	6.3	14.5	16.5	4.7	0.0	0.4	0.8
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)