

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: P458575

Luminaire Tested: **GALN-SA1C-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458575  
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-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6692 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

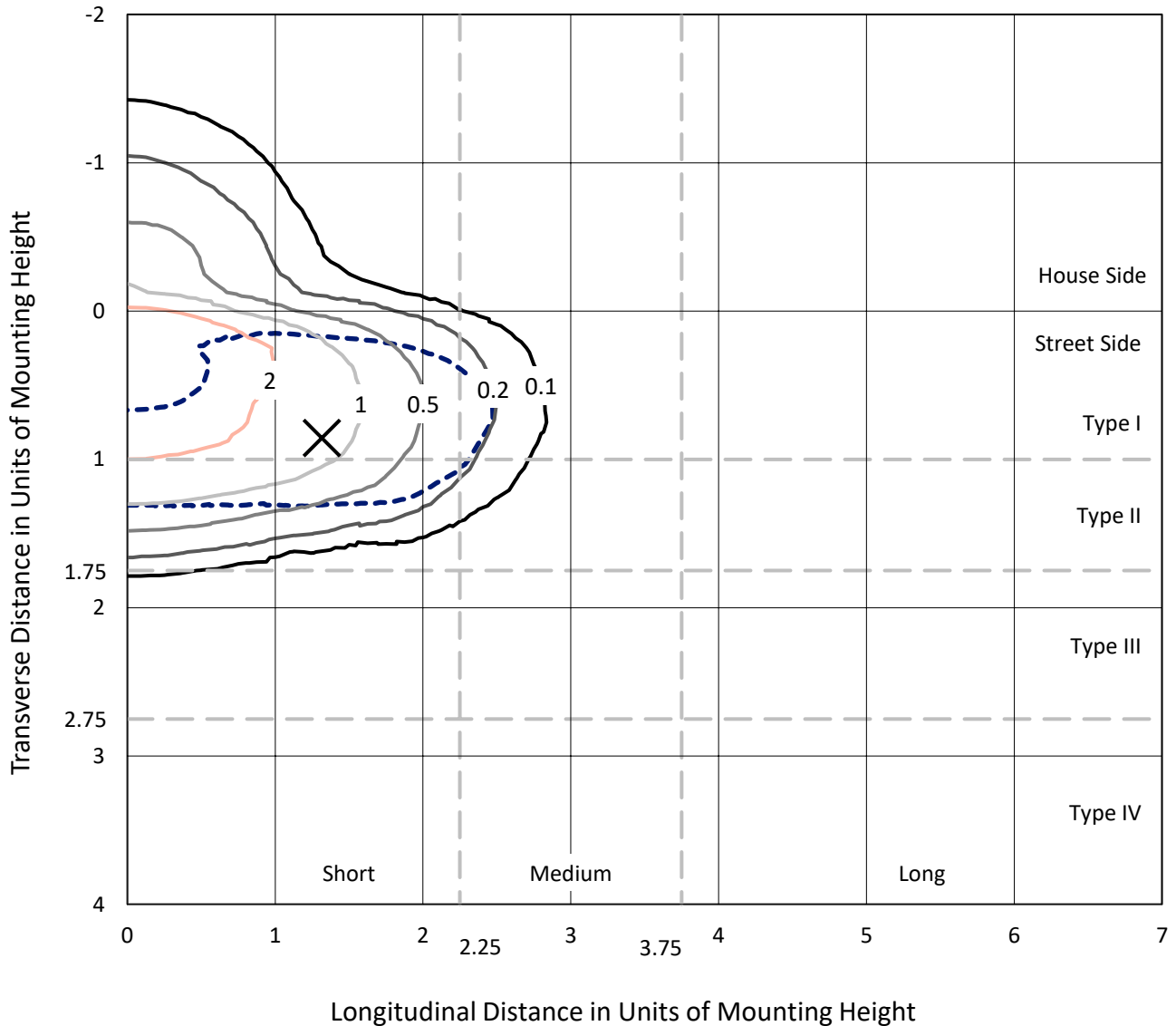
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

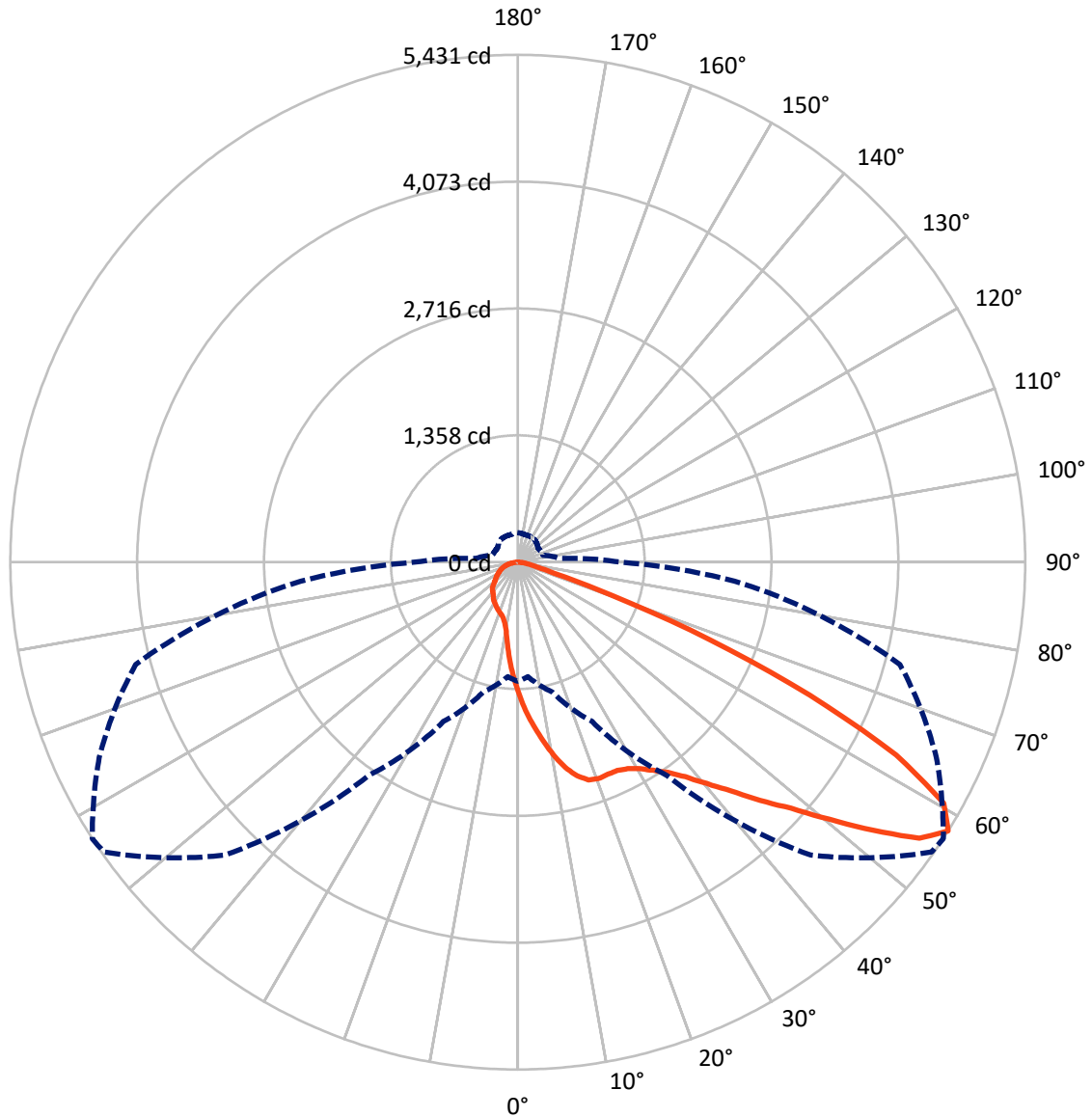
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1017.7	0.0	1017.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	5674.3	0.0	5674.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	6692.0	0.0	6692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.1	2.0
10°-20°	398.2	6.0
20°-30°	661.2	9.9
30°-40°	996.0	14.9
40°-50°	1495.4	22.3
50°-60°	1676.2	25.0
60°-70°	981.0	14.7
70°-80°	290.2	4.3
80°-90°	58.6	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°	6692.0	100.0
0°-180°	6692.0	100.0

**Coefficient of Utilization**



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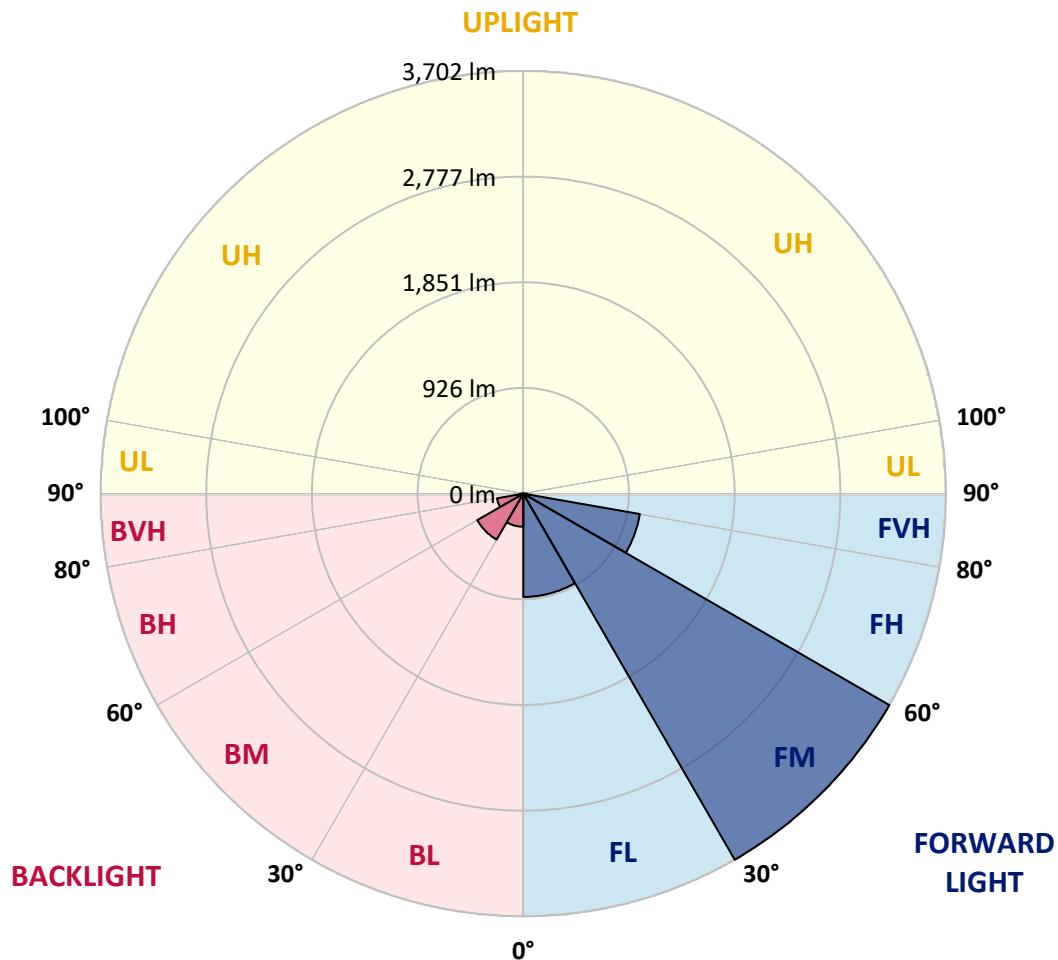
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.6	13.5			
FM	(30°-60°)	3702.3	55.3			
FH	(60°-80°)	1037.0	15.5			G1/1800
FVH	(80°-90°)	30.4	0.5			G1/100
BL	(0°-30°)	290.0	4.3	B1/500		
BM	(30°-60°)	465.3	7.0	B1/1000		
BH	(60°-80°)	234.2	3.5	B1/500		G1/500
BVH	(80°-90°)	28.2	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°	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9
2.5°	1747.0	1727.9	1712.9	1699.7	1682.5	1636.0	1589.4	1588.7	1551.7	1494.6	1436.0
5°	2031.6	2005.9	2009.2	1968.2	1927.2	1859.8	1761.2	1756.1	1677.4	1570.4	1461.6
7.5°	2216.9	2217.3	2207.0	2183.6	2139.3	2062.7	1951.0	1925.7	1816.2	1653.9	1490.9
10°	2207.4	2217.3	2234.5	2254.7	2268.2	2230.5	2128.6	2097.9	1955.4	1755.0	1523.5
12.5°	2080.7	2096.0	2120.6	2171.1	2252.8	2315.1	2280.3	2255.4	2116.6	1855.7	1559.4
15°	2001.5	2010.7	2024.3	2058.3	2146.2	2295.3	2385.4	2372.2	2268.6	1969.7	1599.7
17.5°	1977.4	1986.5	1990.9	2011.8	2074.4	2227.2	2426.8	2450.3	2403.4	2074.4	1640.4
20°	2001.5	2005.9	2005.9	2018.4	2067.5	2187.3	2425.0	2472.3	2514.0	2200.1	1678.5
22.5°	2064.9	2066.7	2064.2	2068.6	2105.2	2198.2	2407.8	2466.4	2603.4	2306.7	1708.1
25°	2167.8	2170.8	2153.9	2143.7	2170.4	2246.6	2417.3	2471.2	2673.4	2408.5	1727.9
27.5°	2284.7	2288.4	2267.8	2244.0	2256.5	2306.3	2454.7	2503.0	2725.7	2508.9	1740.4
30°	2427.9	2429.4	2395.0	2366.4	2358.3	2395.3	2518.4	2563.5	2790.9	2627.2	1759.0
32.5°	2574.5	2585.4	2541.1	2500.8	2487.3	2498.6	2612.6	2656.1	2868.6	2754.3	1789.1
35°	2773.7	2775.6	2722.4	2673.4	2628.7	2643.3	2733.1	2764.6	2975.9	2901.2	1831.6
37.5°	3022.5	3039.3	2966.0	2874.5	2819.5	2798.3	2878.9	2913.3	3126.5	3081.4	1895.7
40°	3298.7	3304.9	3242.2	3185.1	3084.7	3023.2	3078.9	3116.2	3312.2	3296.5	1970.0
42.5°	3472.3	3485.8	3490.6	3484.7	3409.3	3306.0	3327.2	3344.8	3532.0	3498.3	2046.2
45°	3530.9	3551.0	3619.2	3763.5	3771.6	3669.7	3620.3	3637.1	3771.6	3702.0	2119.1
47.5°	3433.8	3468.3	3593.9	3889.9	4111.5	4119.2	3970.1	3933.1	3989.9	3870.8	2171.9
50°	3182.9	3190.2	3382.5	3811.1	4270.9	4548.9	4394.7	4325.8	4197.2	3995.8	2208.1
52.5°	2794.6	2803.0	2964.2	3445.2	4172.7	4849.3	4891.4	4768.3	4407.9	4092.8	2232.0
55°	2074.4	2123.2	2300.5	2765.3	3707.5	4821.1	5286.3	5216.3	4662.4	4169.8	2269.3
57.5°	1275.5	1230.8	1441.1	1881.4	2788.4	4433.5	5408.3	5431.0	4942.7	4234.2	2332.0
60°	586.8	595.6	682.4	970.4	1699.7	3468.3	5094.0	5237.6	5097.6	4232.0	2347.7
62.5°	404.4	396.4	374.4	426.0	775.1	2193.5	4302.7	4546.0	4787.0	4100.5	2285.1
65°	361.6	353.5	311.0	296.7	356.1	956.1	3128.0	3434.9	4030.6	3768.6	2129.0
67.5°	337.7	326.8	282.8	255.0	254.2	380.6	1844.4	2214.0	2989.5	3186.2	1844.8
70°	312.8	304.0	260.4	229.7	216.5	239.2	810.7	1061.2	1941.1	2296.1	1437.0
72.5°	287.9	277.7	238.5	205.5	188.3	179.1	310.6	404.0	1096.7	1376.6	881.0
75°	251.7	246.5	213.2	186.1	167.4	144.7	197.1	224.9	524.6	632.3	442.1
77.5°	220.2	214.7	189.4	162.6	149.1	117.6	139.9	152.8	221.3	256.4	199.6
80°	161.2	166.7	159.7	143.6	133.0	92.3	94.1	104.8	131.5	145.4	122.0
82.5°	102.2	112.5	123.1	110.6	100.7	72.9	65.2	69.2	89.7	95.2	54.2
85°	42.9	43.6	71.4	67.4	57.5	43.2	39.2	41.4	48.0	50.2	25.3
87.5°	16.5	16.1	25.3	23.4	17.9	12.5	12.5	13.9	19.0	17.6	8.1
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°	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9	1405.9
2.5°	1410.7	1384.7	1333.0	1268.9	1222.0	1169.3	1122.8	1089.4	1077.0	1071.1	1060.1
5°	1409.6	1358.3	1251.3	1139.2	1049.1	956.8	878.8	828.2	823.8	790.1	786.8
7.5°	1409.9	1331.6	1161.2	996.4	859.0	764.5	700.0	683.2	663.0	657.9	660.5
10°	1411.0	1297.5	1064.5	855.0	722.0	660.1	635.9	629.3	630.1	632.3	632.6
12.5°	1412.5	1264.5	964.1	747.6	645.1	619.4	616.9	622.7	629.0	633.7	634.8
15°	1414.3	1226.8	866.3	661.2	606.6	604.4	612.8	622.7	631.5	638.5	639.6
17.5°	1412.1	1182.8	784.3	608.1	585.4	596.0	609.9	622.4	630.4	637.0	637.8
20°	1407.0	1133.7	705.2	570.7	572.2	589.4	604.4	616.1	624.9	628.2	630.8
22.5°	1387.2	1075.1	636.3	541.8	556.4	580.2	598.2	605.2	595.3	588.3	590.1
25°	1353.5	998.9	572.2	518.3	542.1	567.4	585.7	568.9	560.8	557.9	559.4
27.5°	1311.4	915.4	523.8	493.8	523.8	553.1	548.0	545.1	541.4	536.6	537.7
30°	1266.0	833.7	482.8	474.7	504.0	520.9	523.1	527.9	523.8	516.5	519.4
32.5°	1223.9	756.8	451.7	458.6	490.1	487.6	504.0	509.5	490.9	466.3	467.4
35°	1188.0	685.4	428.2	442.9	466.3	467.4	483.9	464.9	444.7	433.0	433.7
37.5°	1160.8	629.7	412.8	429.3	435.9	449.8	441.0	431.2	428.6	420.5	420.9
40°	1144.7	581.0	402.9	418.7	417.6	427.1	398.9	408.8	412.5	409.9	410.3
42.5°	1128.6	546.5	392.7	404.0	403.7	385.0	378.8	387.2	396.7	397.8	397.1
45°	1115.8	519.8	382.1	381.7	389.0	359.7	357.9	363.0	376.6	383.2	382.8
47.5°	1101.5	497.5	365.9	355.7	357.9	344.0	341.0	343.2	359.7	370.3	373.3
50°	1083.6	475.1	345.8	331.9	322.7	329.3	330.0	330.4	346.9	359.0	361.6
52.5°	1069.3	458.3	322.7	312.5	301.5	316.1	321.6	322.4	332.2	342.1	344.0
55°	1077.7	448.7	300.0	292.7	282.8	302.6	313.2	314.7	316.9	324.2	325.3
57.5°	1103.0	450.9	281.7	272.2	264.8	286.5	304.4	305.5	304.0	312.8	314.3
60°	1110.7	449.8	268.1	249.5	245.1	269.2	291.6	293.8	293.4	306.2	308.8
62.5°	1078.4	435.9	254.6	230.4	227.5	251.7	273.6	282.4	284.3	302.6	305.9
65°	1002.6	407.3	236.6	210.3	210.3	233.0	256.4	268.5	273.6	298.2	301.8
67.5°	902.6	373.6	218.3	193.0	192.3	215.0	238.1	250.6	258.6	292.0	294.2
70°	749.1	328.2	195.6	174.4	174.4	194.9	215.8	230.8	242.5	280.2	280.2
72.5°	513.2	272.9	168.1	153.1	153.5	172.5	193.8	210.6	224.6	256.8	257.5
75°	324.6	213.2	138.1	130.4	131.9	149.8	171.8	189.4	217.2	253.9	255.0
77.5°	172.5	149.8	109.9	108.1	109.9	126.4	150.9	175.1	218.0	220.2	216.5
80°	111.7	106.2	86.8	83.2	83.9	101.8	134.4	166.3	175.1	177.3	169.2
82.5°	60.8	67.4	61.5	57.9	57.9	79.5	114.7	132.2	125.6	104.4	99.6
85°	26.0	31.5	31.9	27.8	26.7	49.1	76.9	72.2	67.0	64.1	63.4
87.5°	7.3	10.3	10.3	7.7	5.9	13.6	15.4	4.4	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)