

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: P450890

Luminaire Tested: **GALN-SA1D-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450890
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-SA1D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610 lumens
Efficiency: N/A
Efficacy: 101.7 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

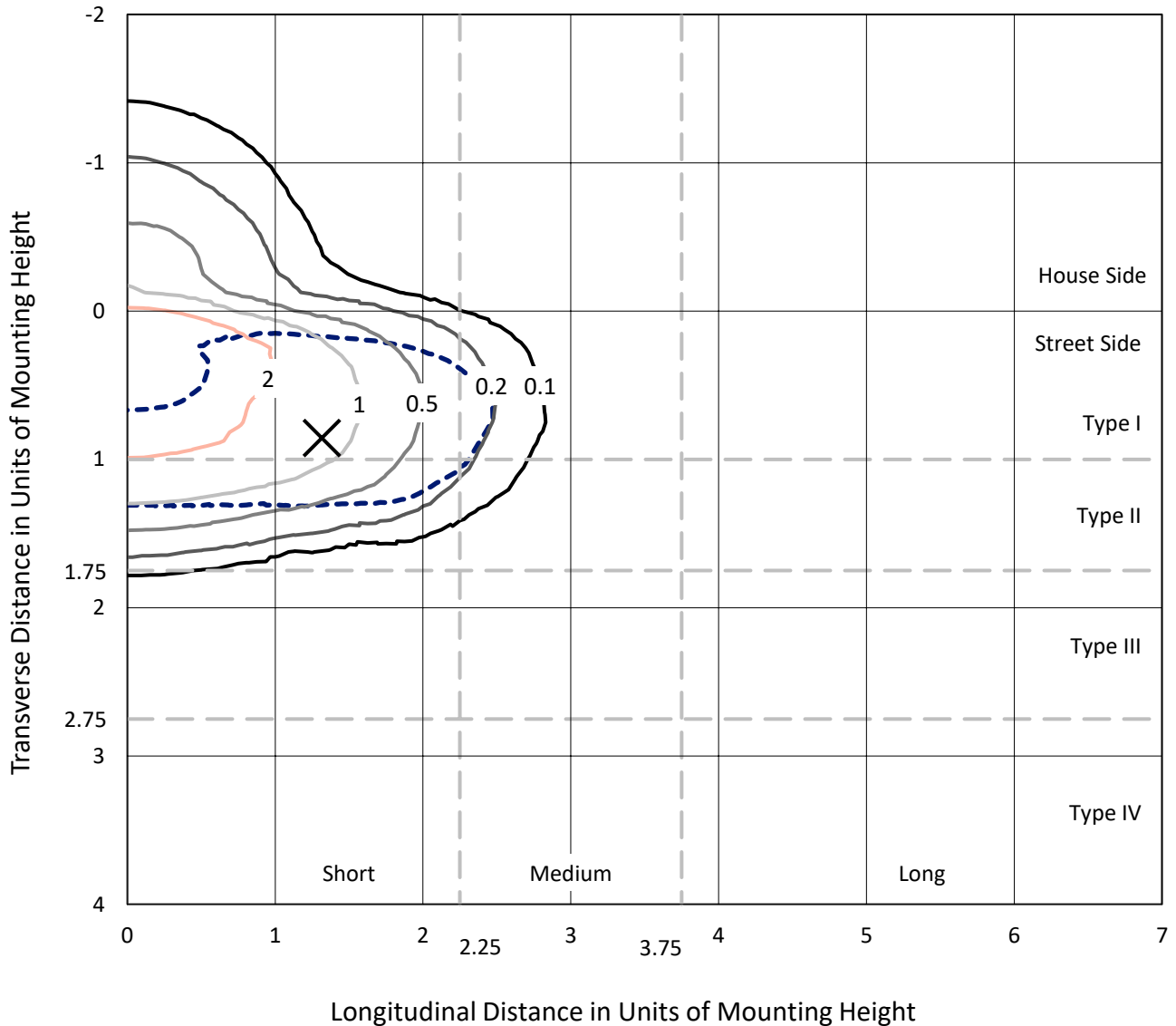
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

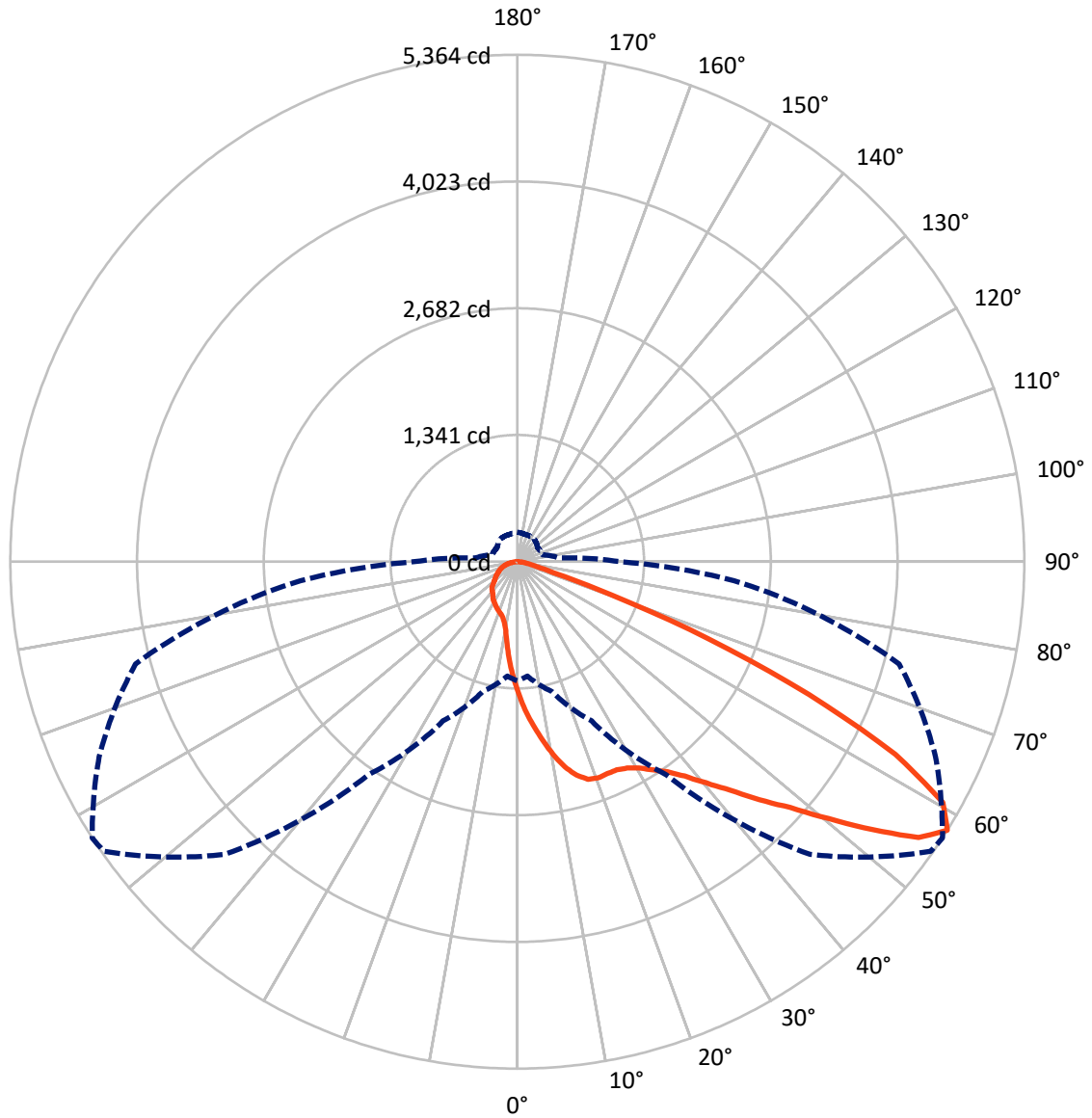
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
House Side	Lumens	1005.2	0.0	1005.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5604.8	0.0	5604.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	6610.0	0.0	6610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	2.0
10°-20°	393.3	6.0
20°-30°	653.1	9.9
30°-40°	983.8	14.9
40°-50°	1477.1	22.3
50°-60°	1655.6	25.0
60°-70°	969.0	14.7
70°-80°	286.6	4.3
80°-90°	57.9	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°	6610.0	100.0
0°-180°	6610.0	100.0

Coefficient of Utilization



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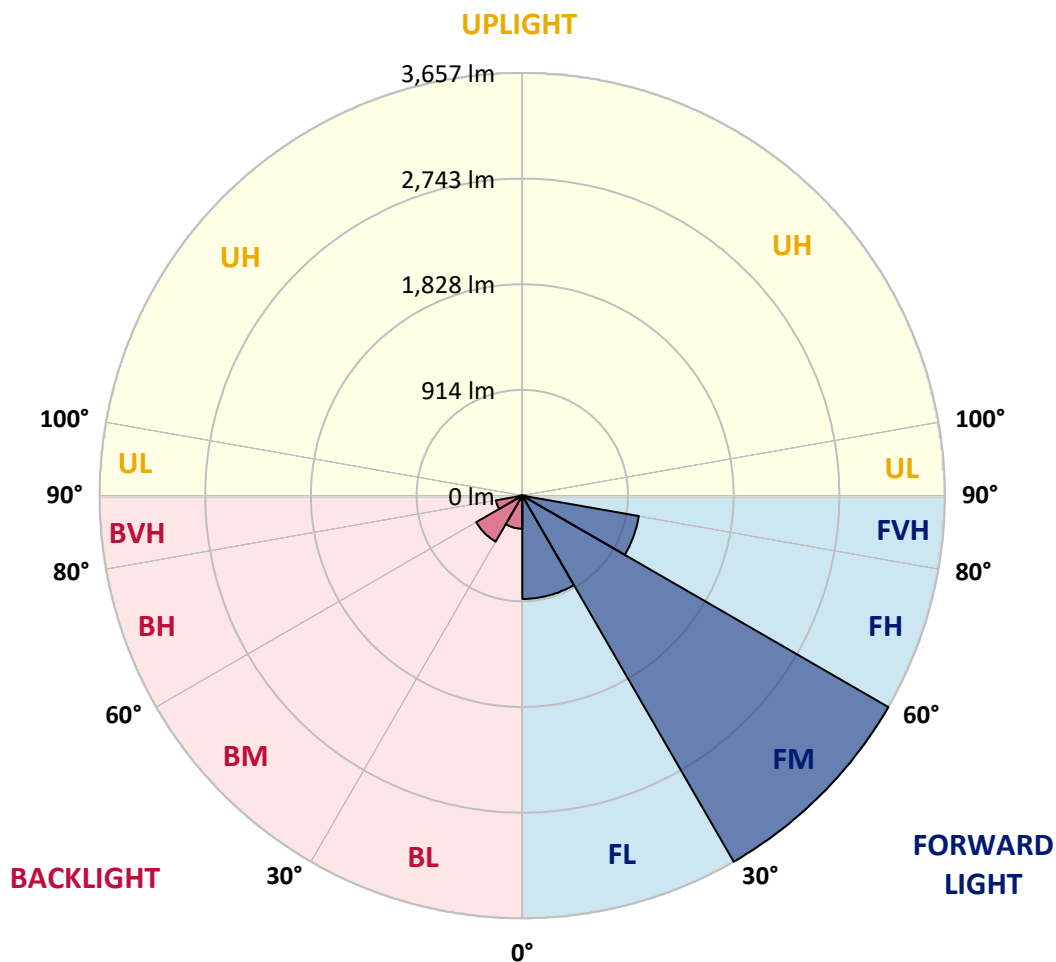
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	893.5	13.5			
FM	(30°-60°)	3656.9	55.3			
FH	(60°-80°)	1024.3	15.5			G1/1800
FVH	(80°-90°)	30.1	0.5			G1/100
BL	(0°-30°)	286.4	4.3	B1/500		
BM	(30°-60°)	459.6	7.0	B1/1000		
BH	(60°-80°)	231.3	3.5	B1/500		G1/500
BVH	(80°-90°)	27.9	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°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1725.5	1706.7	1691.9	1678.9	1661.9	1615.9	1570.0	1569.2	1532.7	1476.2	1418.4
5°	2006.7	1981.4	1984.6	1944.1	1903.6	1837.0	1739.7	1734.6	1656.8	1551.1	1443.7
7.5°	2189.8	2190.1	2180.0	2156.8	2113.1	2037.4	1927.1	1902.1	1793.9	1633.6	1472.6
10°	2180.4	2190.1	2207.1	2227.0	2240.4	2203.2	2102.6	2072.2	1931.4	1733.5	1504.8
12.5°	2055.2	2070.4	2094.6	2144.5	2225.2	2286.7	2252.4	2227.8	2090.6	1833.0	1540.3
15°	1977.0	1986.1	1999.4	2033.1	2119.9	2267.2	2356.2	2343.2	2240.8	1945.5	1580.1
17.5°	1953.1	1962.2	1966.5	1987.1	2049.0	2199.9	2397.1	2420.2	2373.9	2049.0	1620.3
20°	1977.0	1981.4	1981.4	1993.7	2042.1	2160.5	2395.3	2442.0	2483.2	2173.1	1657.9
22.5°	2039.6	2041.4	2038.9	2043.2	2079.4	2171.3	2378.3	2436.2	2571.5	2278.4	1687.2
25°	2141.3	2144.2	2127.5	2117.4	2143.8	2219.1	2387.7	2440.9	2640.6	2379.0	1706.7
27.5°	2256.7	2260.3	2240.1	2216.5	2228.8	2278.1	2424.6	2472.4	2692.3	2478.1	1719.0
30°	2398.2	2399.6	2365.6	2337.4	2329.4	2366.0	2487.5	2532.1	2756.7	2595.0	1737.5
32.5°	2542.9	2553.8	2510.0	2470.2	2456.8	2468.0	2580.5	2623.6	2833.5	2720.6	1767.2
35°	2739.7	2741.5	2689.1	2640.6	2596.5	2610.9	2699.6	2730.7	2939.5	2865.7	1809.1
37.5°	2985.4	3002.1	2929.7	2839.2	2785.0	2764.0	2843.6	2877.6	3088.2	3043.7	1872.4
40°	3258.2	3264.4	3202.5	3146.1	3046.9	2986.1	3041.1	3078.0	3271.6	3256.1	1945.9
42.5°	3429.7	3443.1	3447.8	3442.0	3367.5	3265.5	3286.5	3303.8	3488.7	3455.4	2021.2
45°	3487.6	3507.5	3574.8	3717.4	3725.4	3624.8	3575.9	3592.6	3725.4	3656.6	2093.2
47.5°	3391.7	3425.8	3549.9	3842.2	4061.1	4068.7	3921.5	3884.9	3941.0	3823.4	2145.3
50°	3143.9	3151.1	3341.1	3764.4	4218.5	4493.1	4340.8	4272.8	4145.8	3946.8	2181.1
52.5°	2760.4	2768.7	2927.9	3403.0	4121.6	4789.8	4831.5	4709.9	4353.8	4042.7	2204.6
55°	2049.0	2097.1	2272.3	2731.4	3662.0	4762.0	5221.5	5152.4	4605.3	4118.7	2241.5
57.5°	1259.9	1215.7	1423.4	1858.3	2754.2	4379.2	5342.0	5364.4	4882.1	4182.3	2303.4
60°	579.6	588.3	674.1	958.5	1678.9	3425.8	5031.5	5173.4	5035.2	4180.2	2318.9
62.5°	399.5	391.5	369.8	420.8	765.6	2166.6	4250.0	4490.3	4728.3	4050.3	2257.1
65°	357.1	349.2	307.2	293.1	351.7	944.4	3089.6	3392.8	3981.2	3722.5	2102.9
67.5°	333.6	322.7	279.3	251.8	251.1	375.9	1821.8	2186.9	2952.9	3147.2	1822.2
70°	309.0	300.3	257.3	226.9	213.8	236.3	800.7	1048.2	1917.3	2267.9	1419.4
72.5°	284.4	274.3	235.5	203.0	186.0	176.9	306.8	399.1	1083.3	1359.7	870.2
75°	248.6	243.5	210.6	183.8	165.4	142.9	194.7	222.2	518.1	624.5	436.7
77.5°	217.5	212.0	187.1	160.7	147.3	116.1	138.2	150.9	218.5	253.3	197.2
80°	159.2	164.6	157.8	141.8	131.3	91.2	93.0	103.5	129.9	143.6	120.5
82.5°	100.9	111.1	121.6	109.3	99.5	72.0	64.4	68.4	88.6	94.1	53.6
85°	42.3	43.1	70.6	66.6	56.8	42.7	38.7	40.9	47.4	49.6	25.0
87.5°	16.3	15.9	25.0	23.2	17.7	12.3	12.3	13.7	18.8	17.4	8.0
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°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1393.4	1367.7	1316.7	1253.4	1207.0	1154.9	1109.0	1076.1	1063.8	1058.0	1047.1
5°	1392.3	1341.6	1236.0	1125.3	1036.3	945.1	868.0	818.1	813.7	780.5	777.2
7.5°	1392.7	1315.2	1147.0	984.2	848.5	755.1	691.4	674.8	654.9	649.8	652.4
10°	1393.8	1281.6	1051.5	844.5	713.2	652.0	628.1	621.6	622.3	624.5	624.9
12.5°	1395.2	1249.0	952.3	738.5	637.2	611.8	609.3	615.1	621.3	626.0	627.0
15°	1397.0	1211.8	855.7	653.1	599.2	597.0	605.3	615.1	623.8	630.7	631.7
17.5°	1394.8	1168.3	774.7	600.6	578.2	588.7	602.4	614.7	622.7	629.2	629.9
20°	1389.8	1119.8	696.5	563.7	565.2	582.2	597.0	608.6	617.3	620.5	623.1
22.5°	1370.2	1062.0	628.5	535.1	549.6	573.1	590.9	597.7	588.0	581.1	582.9
25°	1336.9	986.7	565.2	512.0	535.5	560.5	578.6	561.9	554.0	551.1	552.5
27.5°	1295.3	904.2	517.4	487.7	517.4	546.4	541.3	538.4	534.8	530.1	531.2
30°	1250.5	823.5	476.9	468.9	497.9	514.5	516.7	521.4	517.4	510.2	513.1
32.5°	1208.9	747.5	446.1	453.0	484.1	481.6	497.9	503.3	484.8	460.6	461.7
35°	1173.4	677.0	423.0	437.4	460.6	461.7	478.0	459.2	439.3	427.7	428.4
37.5°	1146.6	622.0	407.8	424.1	430.6	444.3	435.6	425.9	423.3	415.4	415.7
40°	1130.7	573.9	398.0	413.6	412.5	421.9	394.0	403.8	407.4	404.9	405.2
42.5°	1114.8	539.8	387.9	399.1	398.7	380.3	374.1	382.4	391.9	392.9	392.2
45°	1102.1	513.4	377.4	377.0	384.3	355.3	353.5	358.6	372.0	378.5	378.1
47.5°	1088.0	491.4	361.5	351.3	353.5	339.8	336.9	339.0	355.3	365.8	368.7
50°	1070.3	469.3	341.6	327.8	318.8	325.3	326.0	326.4	342.6	354.6	357.1
52.5°	1056.2	452.6	318.8	308.6	297.8	312.3	317.7	318.4	328.2	337.9	339.8
55°	1064.5	443.2	296.3	289.1	279.3	298.9	309.4	310.8	313.0	320.2	321.3
57.5°	1089.5	445.4	278.2	268.8	261.6	282.9	300.7	301.8	300.3	309.0	310.4
60°	1097.1	444.3	264.9	246.4	242.1	265.9	288.0	290.2	289.8	302.5	305.0
62.5°	1065.2	430.6	251.5	227.6	224.7	248.6	270.3	279.0	280.8	298.9	302.1
65°	990.3	402.3	233.7	207.7	207.7	230.1	253.3	265.2	270.3	294.5	298.1
67.5°	891.5	369.1	215.6	190.7	190.0	212.4	235.2	247.5	255.4	288.4	290.5
70°	739.9	324.2	193.2	172.2	172.2	192.5	213.1	227.9	239.5	276.8	276.8
72.5°	506.9	269.6	166.1	151.2	151.6	170.4	191.4	208.0	221.8	253.6	254.4
75°	320.6	210.6	136.4	128.8	130.3	148.0	169.7	187.1	214.6	250.7	251.8
77.5°	170.4	148.0	108.5	106.7	108.5	124.8	149.1	173.0	215.3	217.5	213.8
80°	110.4	104.9	85.8	82.1	82.9	100.6	132.8	164.3	173.0	175.1	167.2
82.5°	60.1	66.6	60.8	57.2	57.2	78.5	113.3	130.6	124.1	103.1	98.4
85°	25.7	31.1	31.5	27.5	26.4	48.5	76.0	71.3	66.2	63.3	62.6
87.5°	7.2	10.1	10.1	7.6	5.8	13.4	15.2	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)