

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: P451412

Luminaire Tested: **GALN-SA2B-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451412
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-SA2B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11555 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

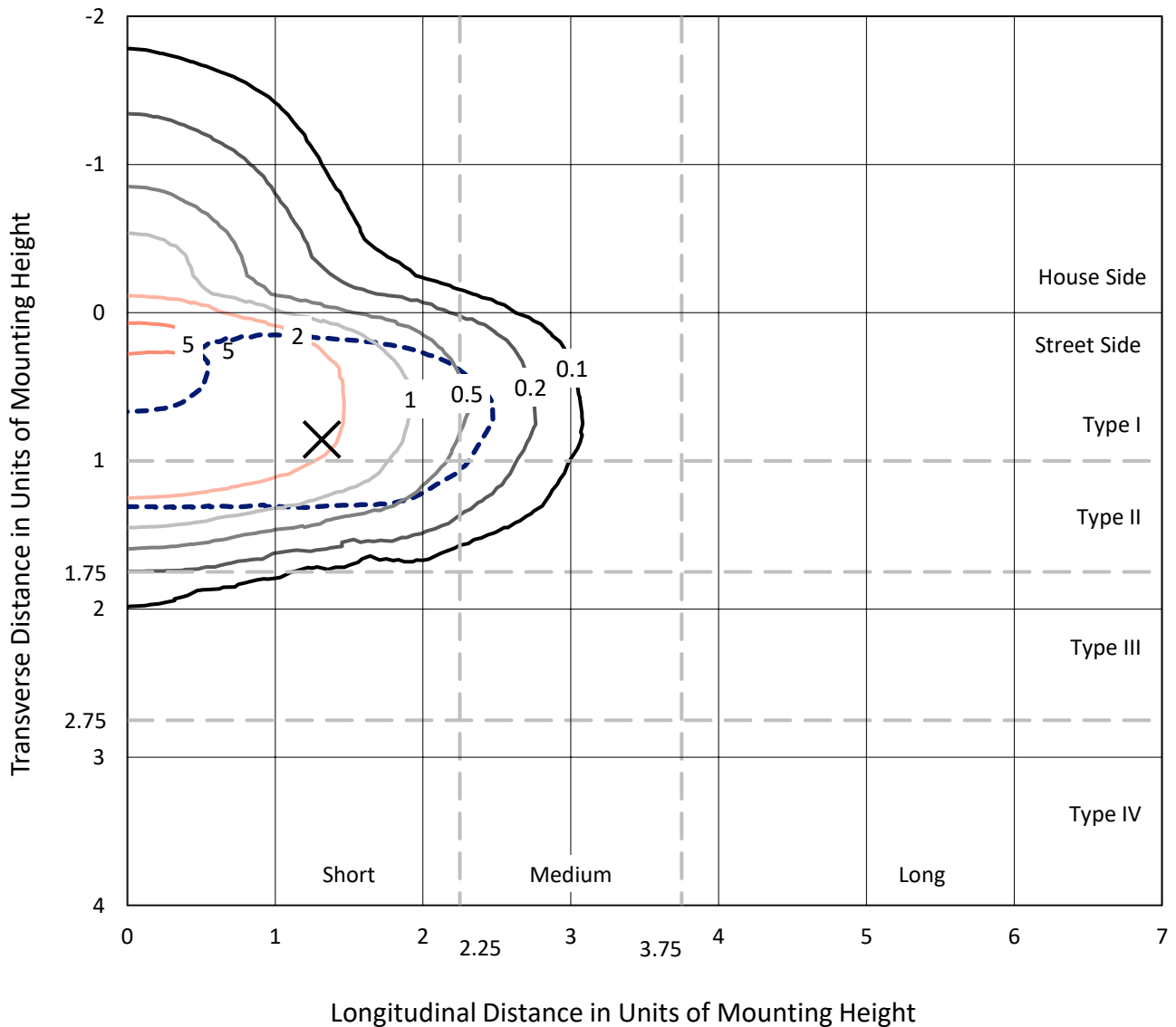
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

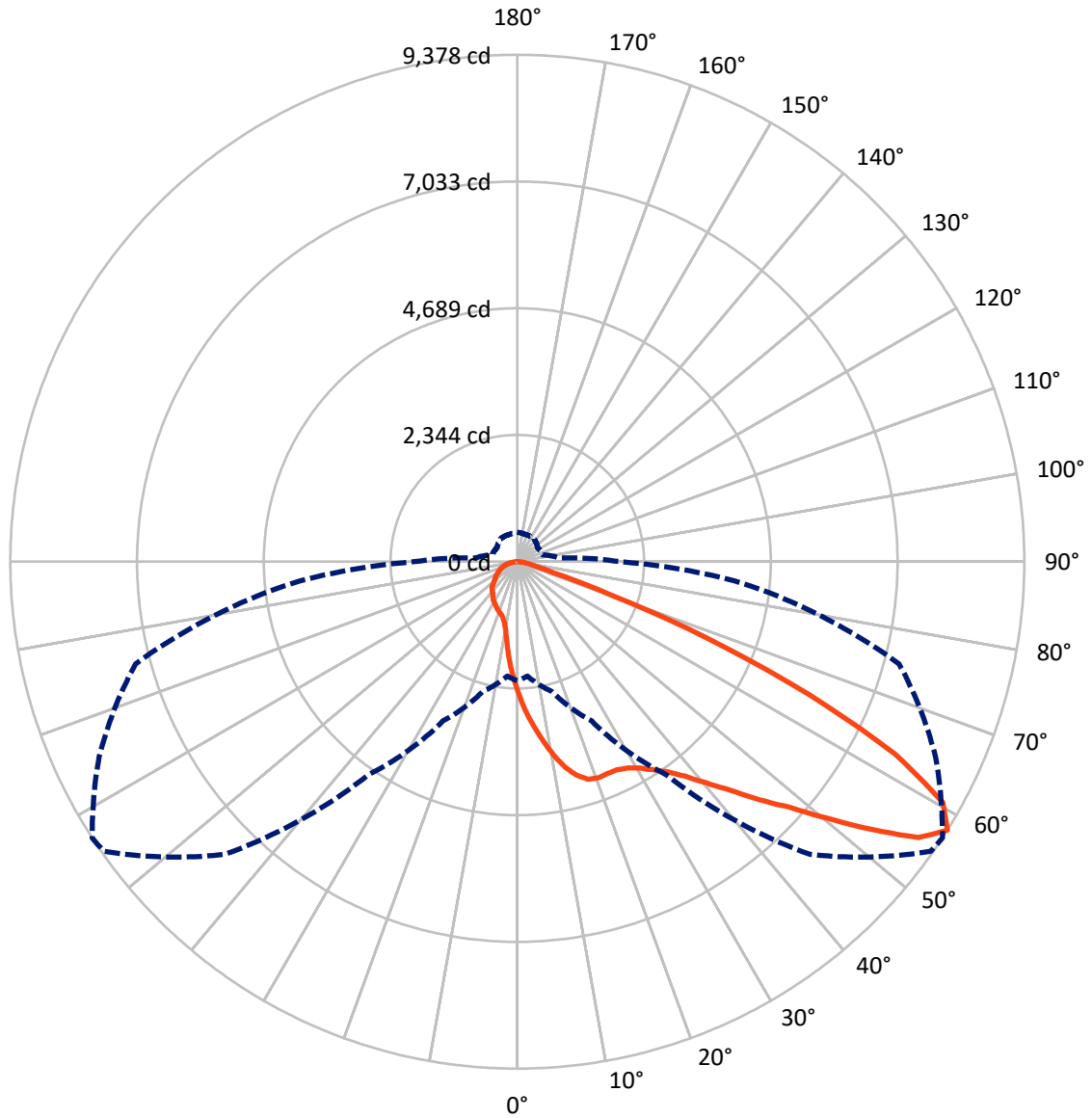
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1757.2	0.0	1757.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9797.8	0.0	9797.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	11555.0	0.0	11555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.0
10°-20°	687.6	6.0
20°-30°	1141.8	9.9
30°-40°	1719.8	14.9
40°-50°	2582.1	22.3
50°-60°	2894.3	25.0
60°-70°	1693.9	14.7
70°-80°	501.0	4.3
80°-90°	101.3	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°	11555.0	100.0
0°-180°	11555.0	100.0

Coefficient of Utilization



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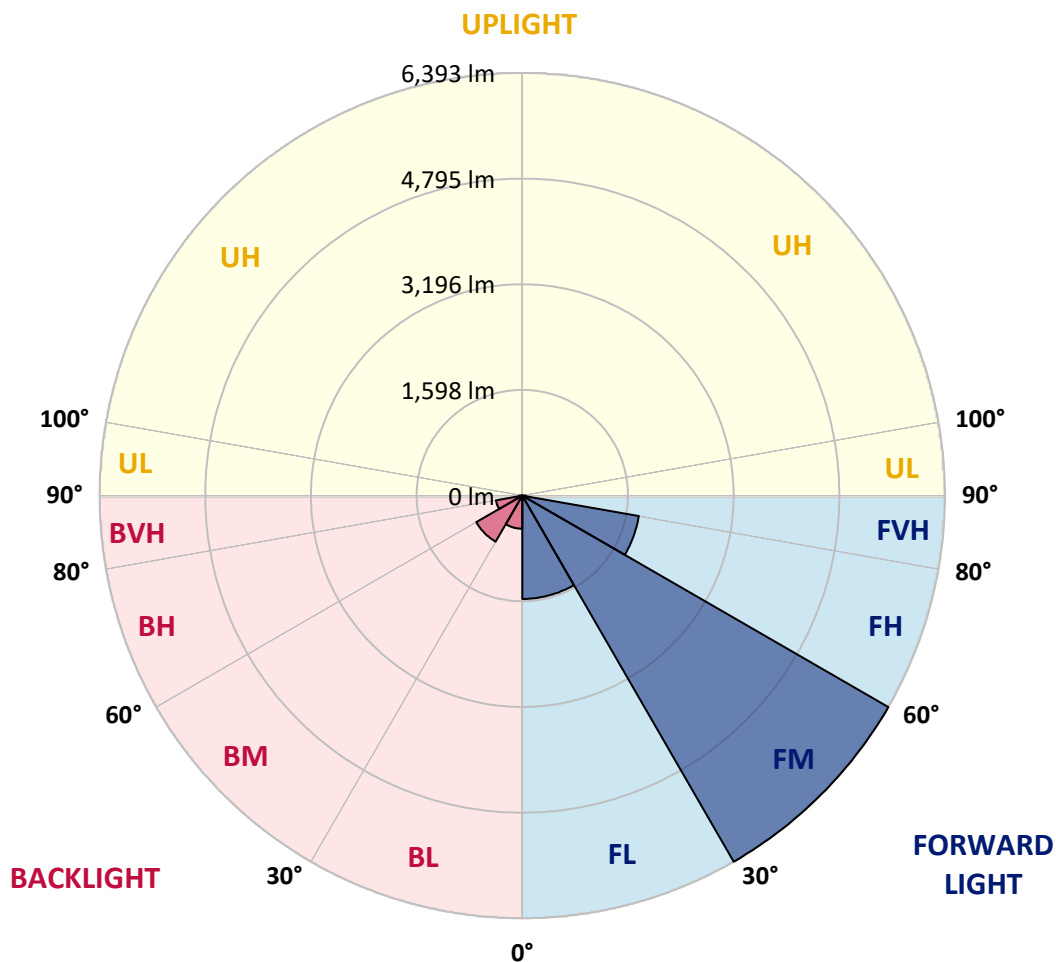
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1562.0	13.5			
FM	(30°-60°)	6392.7	55.3			
FH	(60°-80°)	1790.6	15.5			G1/1800
FVH	(80°-90°)	52.5	0.5			G1/100
BL	(0°-30°)	500.7	4.3	B2/1000		
BM	(30°-60°)	803.5	7.0	B1/1000		
BH	(60°-80°)	404.3	3.5	B1/500		G1/500
BVH	(80°-90°)	48.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	3016.4	2983.5	2957.6	2934.8	2905.1	2824.8	2744.5	2743.2	2679.3	2580.6	2479.4
5°	3507.9	3463.6	3469.3	3398.5	3327.6	3211.3	3041.1	3032.3	2896.3	2711.6	2523.7
7.5°	3828.0	3828.6	3810.9	3770.4	3693.9	3561.7	3368.7	3325.1	3136.0	2855.8	2574.3
10°	3811.5	3828.6	3858.3	3893.1	3916.5	3851.4	3675.5	3622.4	3376.3	3030.4	2630.6
12.5°	3592.7	3619.2	3661.6	3748.9	3889.9	3997.5	3937.4	3894.4	3654.6	3204.3	2692.6
15°	3456.0	3471.8	3495.3	3554.1	3705.9	3963.3	4118.9	4096.1	3917.1	3401.0	2762.2
17.5°	3414.3	3430.1	3437.7	3473.7	3581.9	3845.7	4190.4	4230.9	4149.9	3581.9	2832.4
20°	3456.0	3463.6	3463.6	3485.1	3569.9	3776.7	4187.2	4268.8	4340.9	3798.9	2898.2
22.5°	3565.5	3568.6	3564.2	3571.8	3635.0	3795.7	4157.5	4258.7	4495.2	3982.9	2949.4
25°	3743.2	3748.3	3719.2	3701.4	3747.6	3879.2	4173.9	4266.9	4616.1	4158.8	2983.5
27.5°	3945.0	3951.3	3915.9	3874.8	3896.3	3982.3	4238.4	4321.9	4706.5	4332.1	3005.1
30°	4192.3	4194.8	4135.4	4086.0	4072.1	4136.0	4348.5	4426.3	4819.1	4536.4	3037.3
32.5°	4445.3	4464.3	4387.7	4318.1	4294.7	4314.4	4511.1	4586.3	4953.2	4755.8	3089.2
35°	4789.4	4792.5	4700.8	4616.1	4538.9	4564.2	4719.2	4773.6	5138.5	5009.5	3162.5
37.5°	5218.8	5247.9	5121.4	4963.3	4868.4	4831.7	4970.9	5030.4	5398.5	5320.7	3273.2
40°	5695.8	5706.5	5598.3	5499.7	5326.4	5220.1	5316.2	5380.8	5719.2	5692.0	3401.6
42.5°	5995.6	6019.0	6027.2	6017.1	5886.8	5708.4	5745.1	5775.4	6098.7	6040.5	3533.2
45°	6096.8	6131.6	6249.2	6498.4	6512.3	6336.5	6251.1	6280.2	6512.3	6392.1	3659.1
47.5°	5929.1	5988.6	6205.6	6716.6	7099.3	7112.6	6855.1	6791.3	6889.3	6683.7	3750.2
50°	5495.9	5508.5	5840.6	6580.6	7374.4	7854.5	7588.2	7469.3	7247.3	6899.4	3812.8
52.5°	4825.4	4840.0	5118.3	5948.8	7204.9	8373.2	8445.9	8233.4	7611.0	7067.0	3853.9
55°	3581.9	3666.0	3972.2	4774.8	6401.6	8324.5	9127.8	9006.9	8050.6	7199.9	3918.4
57.5°	2202.4	2125.2	2488.3	3248.6	4814.7	7655.3	9338.4	9377.6	8534.5	7311.2	4026.6
60°	1013.3	1028.5	1178.4	1675.5	2934.8	5988.6	8795.7	9043.6	8802.0	7307.4	4053.8
62.5°	698.3	684.4	646.4	735.6	1338.4	3787.5	7429.5	7849.4	8265.6	7080.3	3945.6
65°	624.3	610.4	537.0	512.3	614.8	1650.9	5401.0	5931.0	6959.5	6507.3	3676.1
67.5°	583.2	564.2	488.3	440.2	439.0	657.2	3184.7	3822.9	5161.9	5501.6	3185.3
70°	540.2	525.0	449.7	396.6	373.8	413.0	1399.7	1832.4	3351.7	3964.6	2481.3
72.5°	497.2	479.4	411.8	354.8	325.1	309.3	536.4	697.7	1893.7	2377.0	1521.2
75°	434.5	425.7	368.1	321.3	289.1	249.8	340.3	388.4	905.8	1091.7	763.4
77.5°	380.1	370.7	327.0	280.8	257.4	203.0	241.6	263.8	382.0	442.8	344.7
80°	278.3	287.8	275.8	247.9	229.6	159.4	162.6	180.9	227.1	251.1	210.6
82.5°	176.5	194.2	212.5	191.0	173.9	125.9	112.6	119.5	155.0	164.5	93.6
85°	74.0	75.3	123.3	116.4	99.3	74.6	67.7	71.5	82.9	86.7	43.6
87.5°	28.5	27.8	43.6	40.5	31.0	21.5	21.5	24.0	32.9	30.4	13.9
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°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2435.8	2390.9	2301.7	2191.0	2110.1	2019.0	1938.6	1881.1	1859.6	1849.5	1830.5
5°	2433.9	2345.3	2160.7	1967.1	1811.5	1652.1	1517.4	1430.1	1422.5	1364.3	1358.6
7.5°	2434.5	2299.2	2005.1	1720.4	1483.2	1320.0	1208.7	1179.6	1144.8	1136.0	1140.4
10°	2436.4	2240.4	1838.1	1476.3	1246.7	1139.8	1098.0	1086.7	1087.9	1091.7	1092.3
12.5°	2439.0	2183.4	1664.8	1291.0	1113.9	1069.6	1065.1	1075.3	1086.0	1094.2	1096.1
15°	2442.1	2118.3	1495.9	1141.7	1047.4	1043.6	1058.2	1075.3	1090.4	1102.5	1104.4
17.5°	2438.3	2042.4	1354.2	1050.0	1010.8	1029.1	1053.1	1074.6	1088.5	1099.9	1101.2
20°	2429.5	1957.6	1217.6	985.5	988.0	1017.7	1043.6	1063.9	1079.1	1084.8	1089.2
22.5°	2395.3	1856.4	1098.7	935.5	960.8	1001.9	1032.9	1044.9	1027.8	1015.8	1019.0
25°	2337.1	1724.9	988.0	895.0	936.1	979.8	1011.4	982.3	968.4	963.3	965.8
27.5°	2264.4	1580.6	904.5	852.6	904.5	955.1	946.2	941.2	934.8	926.6	928.5
30°	2186.0	1439.6	833.6	819.7	870.3	899.4	903.2	911.4	904.5	891.8	896.9
32.5°	2113.2	1306.8	779.9	791.9	846.3	841.9	870.3	879.8	847.6	805.2	807.1
35°	2051.2	1183.4	739.4	764.7	805.2	807.1	835.5	802.7	767.9	747.6	748.9
37.5°	2004.4	1087.3	712.8	741.3	752.7	776.7	761.5	744.5	740.0	726.1	726.8
40°	1976.6	1003.2	695.8	723.0	721.1	737.5	688.8	705.9	712.2	707.8	708.4
42.5°	1948.8	943.7	678.1	697.7	697.0	664.8	654.0	668.6	685.0	686.9	685.6
45°	1926.6	897.5	659.7	659.1	671.7	621.1	618.0	626.8	650.2	661.6	661.0
47.5°	1902.0	858.9	631.9	614.2	618.0	593.9	588.9	592.7	621.1	639.5	644.5
50°	1871.0	820.4	597.1	573.1	557.2	568.6	569.9	570.5	599.0	619.9	624.3
52.5°	1846.3	791.3	557.2	539.5	520.6	545.9	555.3	556.6	573.7	590.8	593.9
55°	1860.8	774.8	518.0	505.4	488.3	522.5	540.8	543.3	547.1	559.8	561.7
57.5°	1904.5	778.6	486.4	470.0	457.3	494.6	525.6	527.5	525.0	540.2	542.7
60°	1917.8	776.7	463.0	430.7	423.1	464.9	503.5	507.3	506.6	528.8	533.2
62.5°	1862.1	752.7	439.6	397.8	392.8	434.5	472.5	487.7	490.8	522.5	528.1
65°	1731.2	703.4	408.6	363.1	363.1	402.3	442.8	463.6	472.5	514.9	521.2
67.5°	1558.5	645.2	377.0	333.3	332.1	371.3	411.1	432.6	446.6	504.1	507.9
70°	1293.5	566.7	337.8	301.1	301.1	336.5	372.5	398.5	418.7	483.9	483.9
72.5°	886.1	471.2	290.3	264.4	265.0	297.9	334.6	363.7	387.7	443.4	444.7
75°	560.4	368.1	238.5	225.2	227.7	258.7	296.6	327.0	375.1	438.3	440.2
77.5°	297.9	258.7	189.8	186.6	189.8	218.2	260.6	302.3	376.3	380.1	373.8
80°	192.9	183.4	149.9	143.6	144.8	175.8	232.1	287.2	302.3	306.1	292.2
82.5°	105.0	116.4	106.3	99.9	99.9	137.3	198.0	228.3	217.0	180.3	172.0
85°	44.9	54.4	55.0	48.1	46.2	84.8	132.8	124.6	115.7	110.7	109.4
87.5°	12.7	17.7	17.7	13.3	10.1	23.4	26.6	7.6	0.0	0.6	1.3
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)