

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: P530490

Luminaire Tested: **GALN-SA5D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29235 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

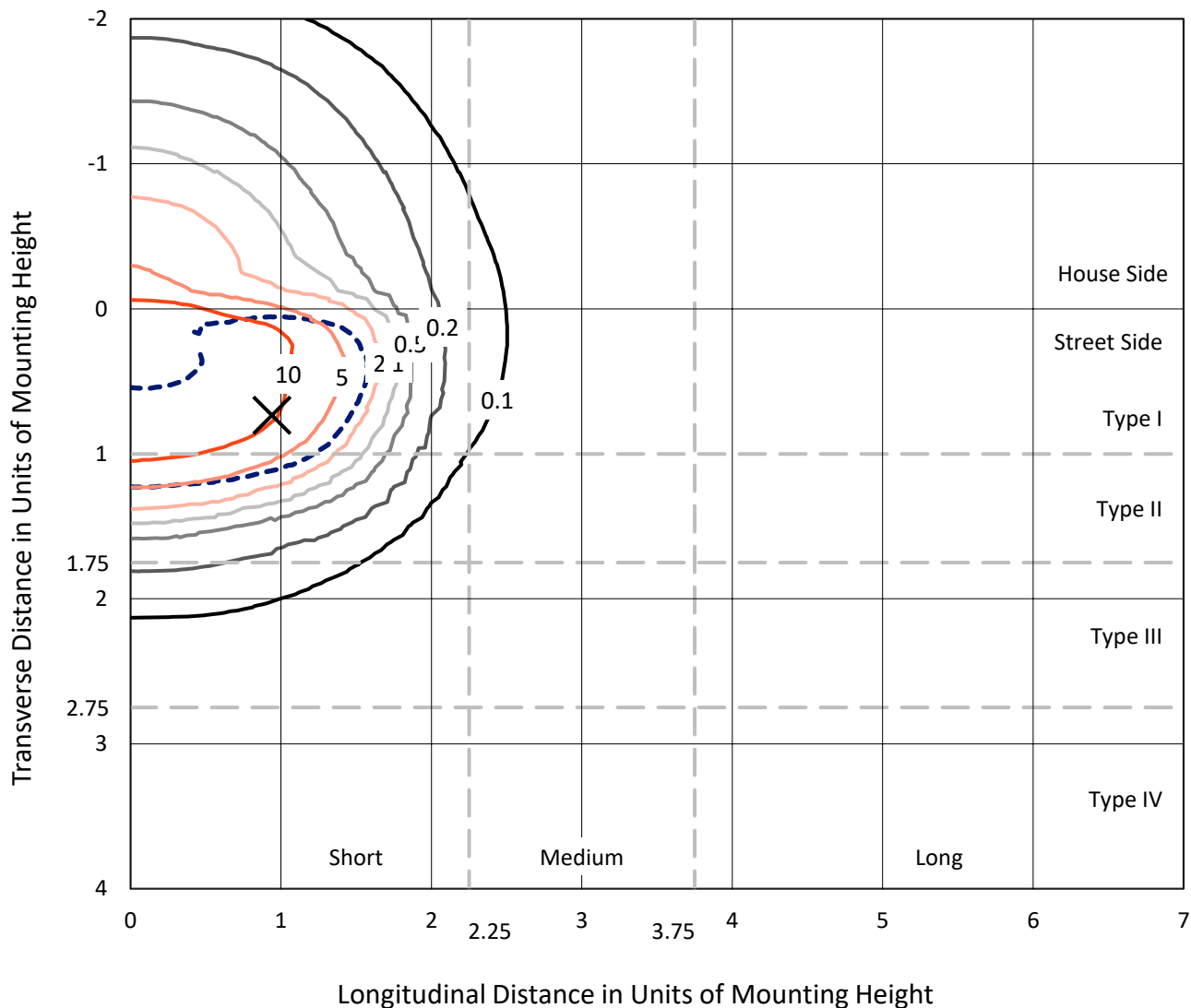
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

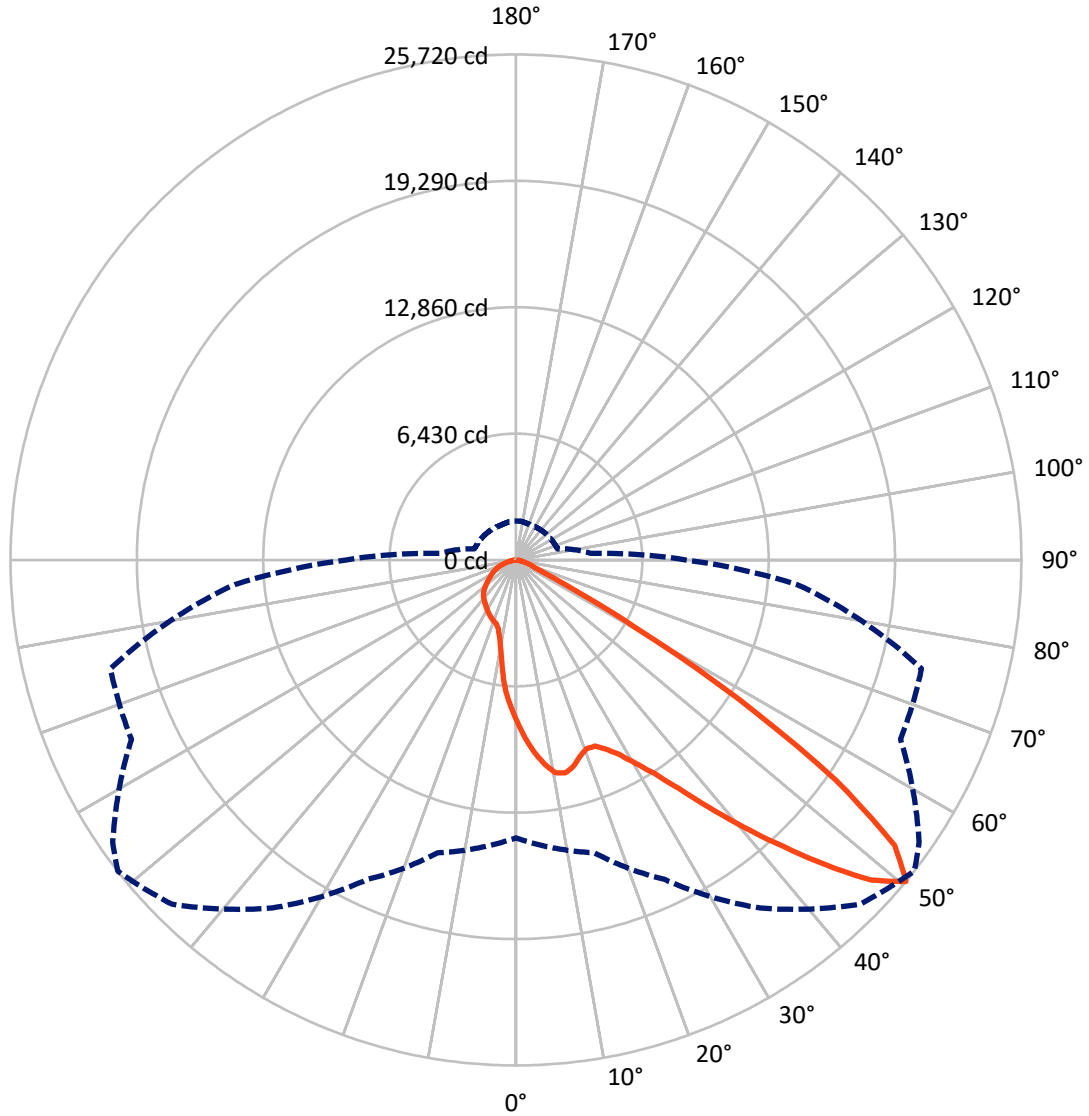
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5495.5	0.0	5495.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23739.5	0.0	23739.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	29235.0	0.0	29235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.6	2.6
10°-20°	2035.8	7.0
20°-30°	3429.2	11.7
30°-40°	5754.5	19.7
40°-50°	8803.0	30.1
50°-60°	6418.1	22.0
60°-70°	1428.3	4.9
70°-80°	515.2	1.8
80°-90°	91.2	0.3
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°	29235.0	100.0
0°-180°	29235.0	100.0

**Coefficient of Utilization**

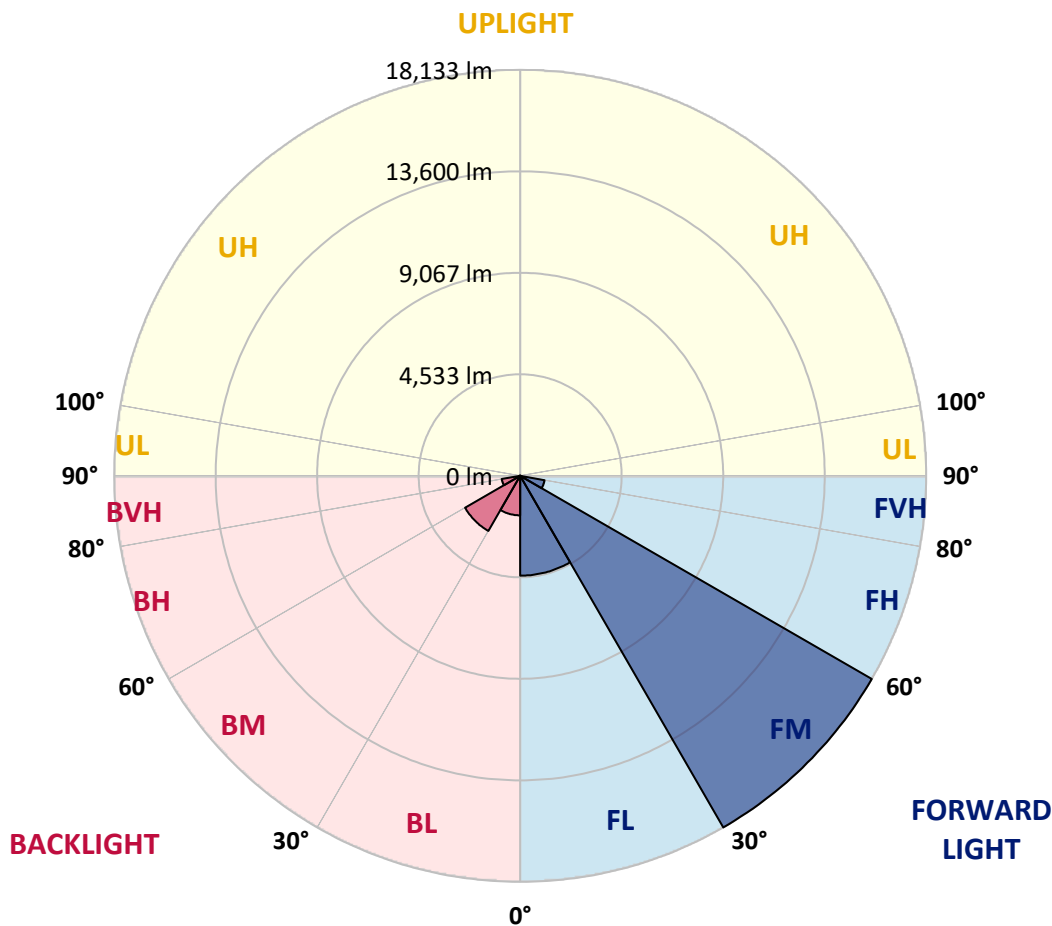


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4459.3	15.3			
FM (30°-60°)	18133.0	62.0			
FH (60°-80°)	1106.3	3.8			G1/1800
FVH (80°-90°)	40.9	0.1			G1/100
BL (0°-30°)	1765.3	6.0	B3/2500		
BM (30°-60°)	2842.6	9.7	B3/5000		
BH (60°-80°)	837.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9
2.5°	9703.0	9516.3	9537.4	9403.5	9259.1	9216.8	9068.8	8927.9	8822.2	8596.7	8388.8
5°	10605.0	10548.6	10464.0	10358.3	10249.1	9981.3	9829.8	9653.7	9266.1	8917.3	8572.0
7.5°	10735.3	10724.7	10770.5	10770.5	10809.3	10707.1	10492.2	10368.9	9956.7	9389.4	8748.2
10°	9819.3	9851.0	10072.9	10361.9	10763.5	11041.8	11006.6	10974.9	10523.9	9748.8	8956.1
12.5°	9090.0	9019.5	9149.9	9396.5	9999.0	10671.9	11126.4	11129.9	11013.7	10323.1	9107.6
15°	8677.7	8727.1	8762.3	8878.6	9333.1	10111.7	10911.5	11147.5	11658.4	10728.3	9347.2
17.5°	8942.0	8776.4	8769.3	8797.5	9030.1	9614.9	10513.4	10918.5	12010.7	11249.7	9643.1
20°	9287.3	9283.7	9185.1	9149.9	9146.3	9667.8	10252.6	10802.3	12197.5	11926.2	9942.6
22.5°	9893.3	9893.3	9731.2	9653.7	9488.1	9914.4	10287.9	10661.3	12507.5	12391.2	10087.0
25°	10908.0	10742.4	10464.0	10273.8	10178.6	10330.1	10661.3	10996.0	12778.8	12884.5	10386.5
27.5°	11845.1	11584.4	11447.0	11119.4	10992.5	10904.4	11207.4	11545.7	13095.9	13652.6	10548.6
30°	12909.2	12863.4	12616.7	12193.9	11880.4	11718.3	11996.6	12331.3	13677.2	14438.2	10922.0
32.5°	14811.7	14396.0	14061.3	13543.3	13032.5	12687.2	12962.0	13184.0	14642.6	15259.2	11330.7
35°	16865.8	16731.9	16154.1	15220.4	14438.2	14128.2	14290.3	14455.9	15766.5	16513.4	12017.8
37.5°	18884.6	18701.4	18225.7	17440.0	16488.8	15858.1	15974.4	16168.2	17027.8	18204.6	12856.3
40°	20336.1	20110.7	19871.1	19754.8	18810.6	17947.4	17880.5	17929.8	18733.1	19790.0	13786.4
42.5°	20441.8	20720.2	20794.2	21262.8	21040.8	20332.6	19920.4	19931.0	20360.8	21357.9	14727.1
45°	20219.9	19962.7	20508.8	21787.7	22520.6	22851.7	22157.7	22069.6	21368.5	22266.9	15195.7
47.5°	17891.0	17961.5	18884.6	20906.9	23024.4	24504.1	24342.1	24049.6	21907.5	22235.2	15121.8
50°	14142.3	14568.6	15424.8	17943.9	21615.1	24764.9	25719.7	25043.2	21586.9	21361.4	14367.8
52.5°	9417.6	9593.8	10157.5	13409.5	17380.2	22136.5	24134.2	24289.2	21290.9	20216.4	13413.0
55°	4192.7	4178.6	4971.3	7004.2	10904.4	16844.6	19719.6	20663.8	20152.9	19050.2	12482.8
57.5°	1775.7	1835.6	2159.7	3026.5	5362.4	10164.6	13360.1	14188.1	15498.7	15643.2	9576.2
60°	1201.4	1208.5	1296.6	1515.0	2244.3	4774.0	7007.7	8001.3	8938.5	8875.0	5080.5
62.5°	944.2	968.9	1035.8	1123.9	1331.8	2166.8	3135.7	3688.8	3748.7	3153.3	1927.2
65°	806.8	810.3	877.3	951.3	1042.9	1261.3	1511.5	1539.7	1557.3	1500.9	1416.3
67.5°	665.9	672.9	725.8	810.3	894.9	965.4	1035.8	1071.1	1152.1	1310.6	1289.5
70°	528.5	539.1	584.9	655.3	732.8	775.1	863.2	894.9	968.9	1092.2	1141.5
72.5°	401.6	405.2	443.9	493.3	563.7	606.0	680.0	715.2	764.5	870.2	916.0
75°	288.9	299.5	327.7	352.3	362.9	391.1	461.5	500.3	570.8	616.6	620.1
77.5°	151.5	158.5	165.6	165.6	200.8	253.7	299.5	320.6	369.9	405.2	387.6
80°	59.9	63.4	81.0	109.2	140.9	183.2	214.9	225.5	267.8	288.9	299.5
82.5°	35.2	38.8	52.8	77.5	102.2	130.4	155.0	165.6	193.8	218.4	225.5
85°	17.6	21.1	31.7	49.3	66.9	81.0	77.5	74.0	74.0	70.5	74.0
87.5°	7.0	7.0	10.6	10.6	10.6	14.1	17.6	17.6	17.6	21.1	21.1
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°	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9	8240.9
2.5°	8251.4	8110.5	7980.1	7740.6	7479.8	7405.9	7102.9	6993.6	6916.1	6824.5	6796.3
5°	8293.7	8107.0	7687.7	7205.0	6821.0	6327.7	6003.6	5654.8	5401.1	5337.7	5320.1
7.5°	8381.8	8061.2	7338.9	6609.6	5823.9	5154.5	4643.6	4368.8	4125.7	4111.6	4087.0
10°	8480.4	7923.8	6958.4	5813.3	4809.2	4189.1	3882.6	3762.8	3702.9	3688.8	3681.8
12.5°	8561.5	7895.6	6532.1	5038.2	4090.5	3717.0	3625.4	3614.8	3639.5	3646.6	3660.6
15°	8596.7	7782.8	6017.7	4344.2	3643.0	3505.6	3544.4	3586.7	3604.3	3650.1	3614.8
17.5°	8663.7	7638.4	5383.5	3794.5	3392.9	3417.5	3484.5	3533.8	3562.0	3593.7	3547.9
20°	8698.9	7508.0	4788.1	3466.9	3304.8	3350.6	3442.2	3481.0	3516.2	3530.3	3477.4
22.5°	8667.2	7240.3	4263.1	3202.6	3220.2	3280.1	3361.2	3403.5	3382.3	3325.9	3294.2
25°	8582.6	6863.3	3717.0	3033.5	3100.5	3206.1	3269.6	3237.9	3199.1	3167.4	3156.8
27.5°	8579.1	6401.7	3322.4	2878.5	2998.3	3142.7	3121.6	3093.4	3111.0	3086.4	3058.2
30°	8596.7	5954.3	2998.3	2790.4	2924.3	2994.8	3019.4	2991.2	3012.4	2966.6	2980.7
32.5°	8505.1	5517.4	2786.9	2688.2	2836.2	2832.7	2913.7	2934.9	2885.5	2790.4	2804.5
35°	8543.9	5165.1	2607.2	2642.4	2737.6	2737.6	2801.0	2776.3	2646.0	2589.6	2603.7
37.5°	8811.6	4819.8	2519.1	2579.0	2642.4	2670.6	2649.5	2543.8	2512.1	2512.1	2519.1
40°	9065.3	4523.8	2466.3	2564.9	2554.4	2572.0	2416.9	2427.5	2427.5	2431.0	2413.4
42.5°	9290.8	4323.0	2424.0	2480.4	2498.0	2406.4	2311.2	2300.7	2325.3	2321.8	2307.7
45°	9371.8	4157.4	2364.1	2385.2	2399.3	2247.8	2202.0	2180.9	2209.1	2219.6	2233.7
47.5°	9061.8	4020.0	2297.2	2254.9	2226.7	2128.0	2068.1	2029.4	2064.6	2124.5	2138.6
50°	8663.7	3840.3	2191.5	2110.4	2050.5	2008.2	1966.0	1927.2	1951.9	1994.2	1983.6
52.5°	8075.3	3558.5	2057.6	1973.0	1870.8	1881.4	1842.7	1821.5	1835.6	1835.6	1825.0
55°	7236.7	2924.3	1832.1	1772.2	1687.6	1715.8	1722.9	1694.7	1666.5	1691.2	1670.0
57.5°	4939.6	2064.6	1634.8	1634.8	1550.2	1589.0	1585.5	1518.5	1451.6	1458.6	1444.5
60°	2857.3	1645.4	1507.9	1493.9	1405.8	1437.5	1444.5	1398.7	1296.6	1303.6	1289.5
62.5°	1624.2	1405.8	1317.7	1296.6	1278.9	1307.1	1307.1	1247.2	1159.1	1166.2	1152.1
65°	1381.1	1303.6	1176.8	1173.2	1166.2	1173.2	1145.1	1081.6	1004.1	972.4	975.9
67.5°	1254.3	1204.9	1081.6	1049.9	1028.8	1025.3	972.4	912.5	877.3	849.1	845.6
70°	1099.3	1060.5	968.9	926.6	905.5	856.1	803.3	764.5	715.2	701.1	715.2
72.5°	870.2	866.7	831.5	785.7	739.9	701.1	655.3	602.5	556.7	546.1	521.4
75°	602.5	609.5	616.6	609.5	570.8	521.4	468.6	426.3	369.9	338.2	331.2
77.5°	394.6	405.2	415.7	401.6	377.0	331.2	296.0	243.1	200.8	176.2	172.6
80°	288.9	303.0	310.0	299.5	271.3	236.1	197.3	155.0	123.3	102.2	102.2
82.5°	222.0	236.1	243.1	225.5	197.3	169.1	140.9	109.2	84.6	66.9	63.4
85°	77.5	74.0	88.1	91.6	109.2	102.2	84.6	63.4	49.3	35.2	31.7
87.5°	21.1	21.1	24.7	24.7	21.1	17.6	17.6	17.6	14.1	10.6	10.6
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)