

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: P529566

Luminaire Tested: **GALN-SA4D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21467 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

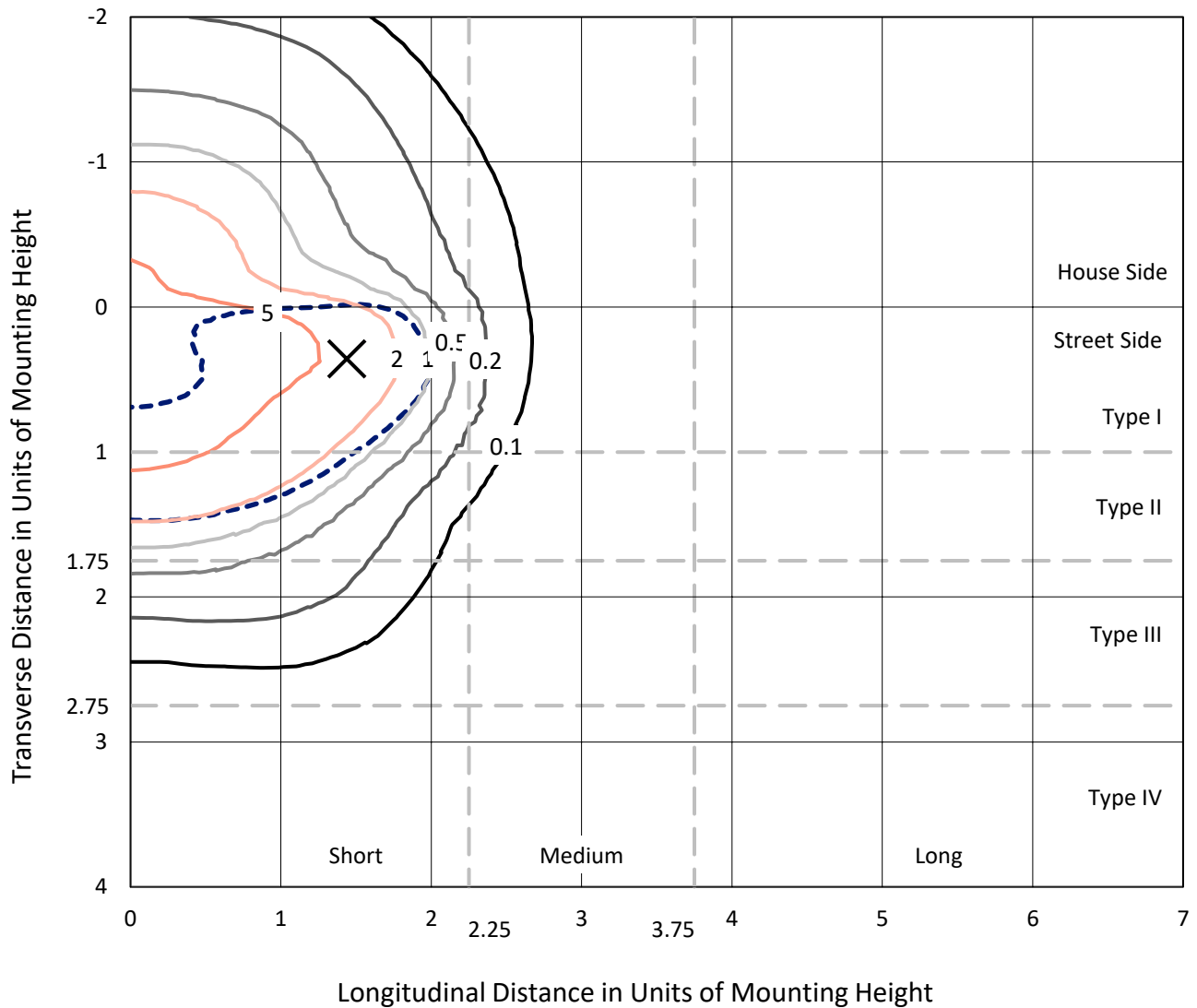
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

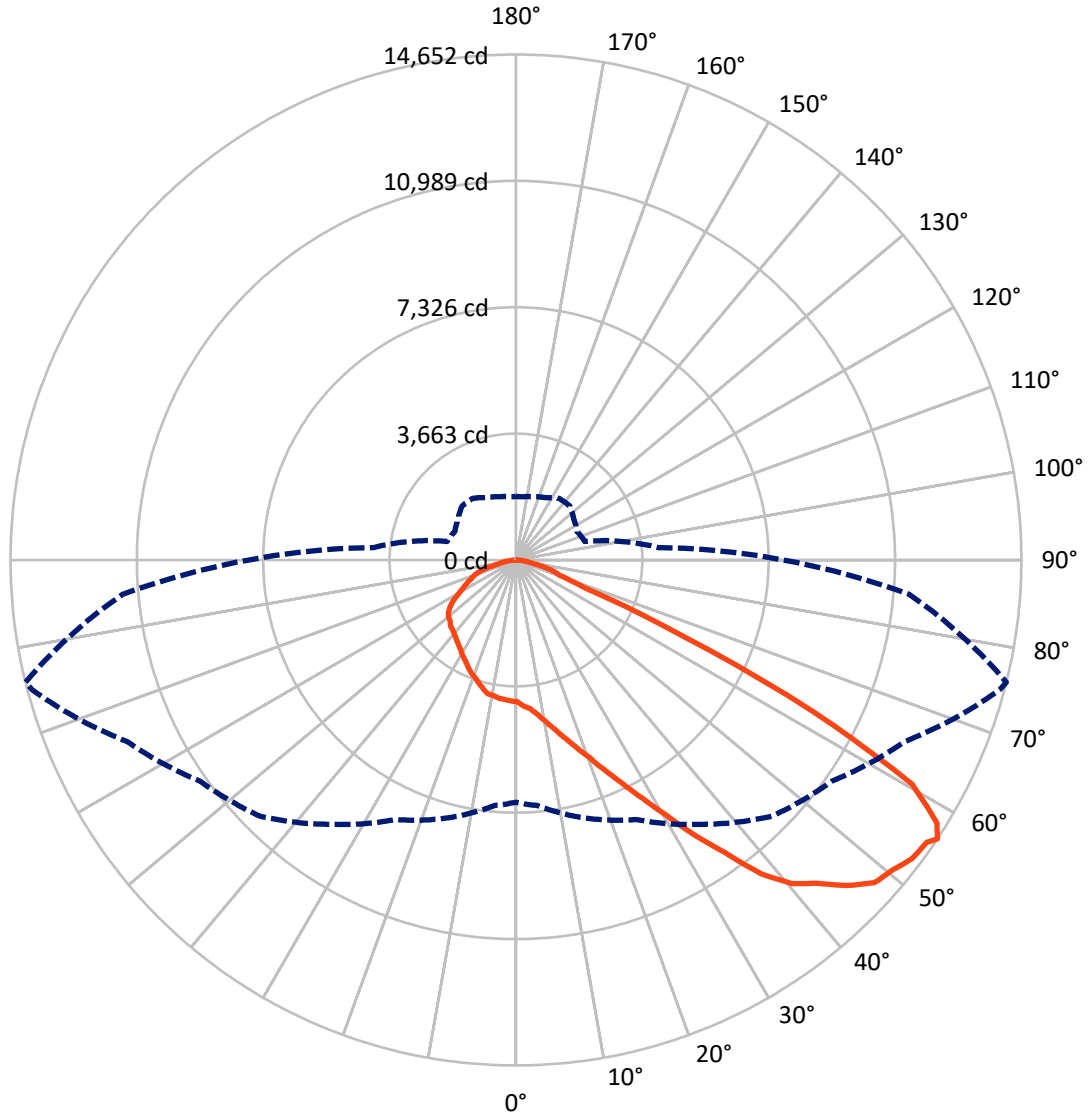
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5771.8	0.0	5771.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15695.2	0.0	15695.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	21467.0	0.0	21467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.9
10°-20°	1279.6	6.0
20°-30°	2237.8	10.4
30°-40°	3503.7	16.3
40°-50°	5096.9	23.7
50°-60°	5601.8	26.1
60°-70°	2500.4	11.6
70°-80°	722.2	3.4
80°-90°	117.1	0.5
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°	21467.0	100.0
0°-180°	21467.0	100.0

Coefficient of Utilization



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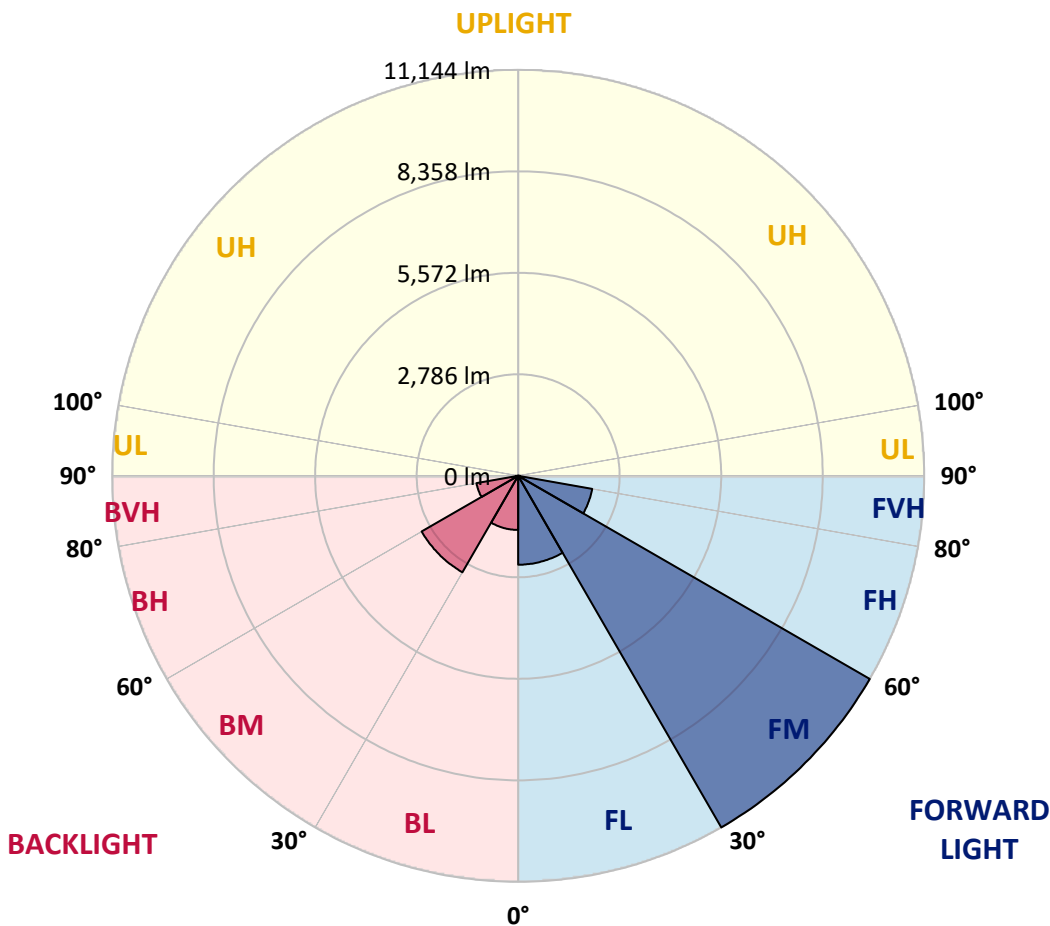
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.5	11.4			
FM (30°-60°)	11143.9	51.9			
FH (60°-80°)	2061.3	9.6			G2/5000
FVH (80°-90°)	50.4	0.2			G1/100
BL (0°-30°)	1485.2	6.9	B3/2500		
BM (30°-60°)	3058.6	14.2	B3/5000		
BH (60°-80°)	1161.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	66.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4
2.5°	4524.9	4452.5	4446.9	4427.5	4438.6	4388.5	4335.6	4266.1	4193.7	4238.2	4132.5
5°	4842.1	4744.7	4783.7	4716.9	4725.2	4658.4	4549.9	4469.2	4380.2	4327.3	4252.1
7.5°	4953.4	4961.8	4989.6	4978.5	4922.8	4922.8	4850.4	4708.5	4552.7	4522.1	4396.8
10°	5103.7	5106.5	5075.9	5084.2	5162.1	5125.9	5061.9	5000.7	4800.4	4764.2	4541.6
12.5°	5156.6	5106.5	5156.6	5201.1	5292.9	5343.0	5329.1	5284.6	5070.3	5045.2	4719.7
15°	5164.9	5134.3	5176.0	5276.2	5356.9	5568.4	5674.2	5643.5	5359.7	5362.5	4920.0
17.5°	5125.9	5167.7	5184.4	5270.7	5457.1	5654.7	5960.8	6002.5	5768.8	5732.6	5173.3
20°	5178.8	5148.2	5170.5	5248.4	5496.1	5805.0	6205.7	6481.2	6152.8	6127.8	5434.8
22.5°	5382.0	5340.2	5334.7	5384.7	5562.8	5882.9	6464.5	6959.8	6620.3	6634.2	5760.4
25°	5540.6	5562.8	5543.4	5540.6	5651.9	5999.7	6806.8	7530.3	7254.8	7174.1	6144.5
27.5°	5813.3	5866.2	5827.2	5880.1	5855.0	6175.1	7051.7	8162.0	7939.4	7830.8	6492.3
30°	6191.8	6219.6	6183.4	6183.4	6108.3	6420.0	7274.3	8821.5	8729.7	8582.2	6901.4
32.5°	6689.9	6731.6	6659.3	6617.5	6606.4	6784.5	7675.0	9472.7	9628.5	9503.3	7444.0
35°	7349.4	7324.4	7238.1	7199.1	7048.9	7343.8	8270.5	10221.3	10630.4	10407.7	8100.8
37.5°	7931.0	7892.1	7886.5	7669.4	7705.6	7947.7	8777.0	10789.0	11601.6	11537.6	8793.7
40°	8473.7	8509.8	8568.3	8445.8	8390.2	8657.3	9367.0	11223.1	12355.7	12330.7	9328.0
42.5°	9055.3	9021.9	9124.9	9021.9	8938.4	9316.9	10007.0	11523.6	13018.0	12812.1	9887.3
45°	9898.5	9792.7	9828.9	9837.3	9776.0	9915.2	10271.4	11740.7	13482.7	13460.5	10296.4
47.5°	10602.5	10605.3	10544.1	10496.8	10310.3	10449.5	10566.3	11877.1	14017.0	13980.9	10455.0
50°	10864.1	10827.9	11006.0	11109.0	11120.1	10836.3	10797.3	11952.2	14298.1	14139.5	10613.7
52.5°	9923.5	9956.9	10238.0	10850.2	11203.6	11234.2	11067.3	12108.0	14412.2	14378.8	10741.7
55°	7986.7	8148.1	8610.0	9316.9	10154.5	11075.6	11359.5	12269.4	14473.4	14445.6	11309.4
56°	7021.0	7146.3	7747.4	8301.1	9353.0	10499.6	11175.8	12442.0	14520.7	14651.5	11442.9
57.5°	5651.9	5796.6	6227.9	6856.9	8098.0	9403.1	10669.3	12230.5	14337.1	14387.2	11540.3
60°	3534.2	3548.1	4065.7	4480.3	5354.1	6628.7	8142.5	10641.5	13268.5	13196.1	10366.0
62.5°	2318.1	2320.9	2791.2	3130.7	3528.6	3820.8	4792.0	7057.2	9789.9	9661.9	7380.0
65°	1627.9	1664.1	2028.7	2482.3	2643.7	2490.6	2460.0	3720.6	5468.2	5284.6	3965.5
67.5°	1191.0	1193.8	1516.6	2003.6	2237.4	1895.1	1538.9	1817.2	2165.0	2159.5	1836.7
70°	787.5	820.9	1068.6	1497.2	1764.3	1522.2	1257.8	1299.6	1377.5	1377.5	1366.4
72.5°	459.2	489.8	654.0	948.9	990.7	951.7	996.2	1113.1	1163.2	1160.4	1146.5
75°	261.6	275.5	311.7	395.2	492.6	581.6	731.9	843.2	893.3	923.9	887.7
77.5°	153.1	161.4	183.7	225.4	256.0	314.5	397.9	475.9	542.6	534.3	539.9
80°	80.7	80.7	103.0	133.6	178.1	222.6	264.4	308.9	345.1	353.4	361.8
82.5°	47.3	50.1	66.8	97.4	128.0	158.6	203.1	233.8	267.2	269.9	275.5
85°	25.0	27.8	41.7	64.0	86.3	97.4	100.2	94.6	103.0	97.4	111.3
87.5°	8.3	8.3	13.9	11.1	11.1	13.9	16.7	16.7	22.3	22.3	22.3
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°	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4	4107.4
2.5°	4129.7	4129.7	4082.4	3993.3	3979.4	3943.2	3909.9	3907.1	3882.0	3859.8	3848.6
5°	4207.6	4121.3	4051.8	3971.1	3876.5	3831.9	3781.8	3726.2	3703.9	3726.2	3723.4
7.5°	4296.7	4224.3	4015.6	3865.3	3756.8	3712.3	3656.6	3598.2	3603.7	3603.7	3564.8
10°	4382.9	4285.5	3951.6	3759.6	3601.0	3567.6	3537.0	3559.2	3587.0	3592.6	3567.6
12.5°	4527.6	4307.8	3921.0	3653.8	3553.7	3481.3	3500.8	3562.0	3620.4	3603.7	3623.2
15°	4636.2	4327.3	3781.8	3545.3	3420.1	3453.5	3523.0	3564.8	3662.2	3651.1	3670.5
17.5°	4741.9	4338.4	3645.5	3400.6	3347.7	3439.6	3492.4	3612.1	3642.7	3709.5	3734.5
20°	4959.0	4360.7	3506.3	3311.5	3294.9	3400.6	3492.4	3548.1	3614.9	3673.3	3673.3
22.5°	5070.3	4349.5	3414.5	3194.7	3247.5	3314.3	3397.8	3492.4	3492.4	3548.1	3550.9
25°	5209.4	4305.0	3269.8	3139.0	3178.0	3242.0	3336.6	3303.2	3339.4	3339.4	3383.9
27.5°	5368.0	4210.4	3144.6	3038.8	3116.8	3186.3	3200.2	3178.0	3136.2	3130.7	3114.0
30°	5496.1	4093.5	3052.7	3005.4	3069.4	3108.4	3063.9	3016.6	2944.2	2938.7	2899.7
32.5°	5671.4	3948.8	2938.7	2922.0	2994.3	2997.1	2983.2	2910.8	2805.1	2760.6	2716.0
35°	5966.4	3865.3	2852.4	2877.4	2899.7	2891.3	2866.3	2788.4	2682.6	2663.2	2646.5
37.5°	6183.4	3804.1	2763.3	2793.9	2813.4	2824.6	2749.4	2663.2	2665.9	2627.0	2615.8
40°	6428.3	3765.1	2691.0	2704.9	2707.7	2743.9	2652.0	2610.3	2629.8	2604.7	2621.4
42.5°	6742.8	3776.3	2615.8	2604.7	2657.6	2643.7	2599.1	2543.5	2554.6	2479.5	2490.6
45°	6909.7	3851.4	2571.3	2521.2	2579.7	2576.9	2518.4	2465.6	2398.8	2254.1	2259.6
47.5°	7021.0	3870.9	2465.6	2432.2	2493.4	2529.6	2462.8	2340.3	2245.7	2142.8	2117.7
50°	7135.1	3907.1	2415.5	2345.9	2371.0	2457.2	2373.7	2256.9	2165.0	2073.2	2087.1
52.5°	7235.3	3976.6	2318.1	2215.1	2259.6	2354.3	2309.7	2167.8	2067.6	1992.5	1970.2
55°	7680.6	4132.5	2153.9	2020.3	2126.1	2245.7	2220.7	2048.2	1939.6	1900.7	1895.1
56°	7750.1	4138.0	2067.6	1953.5	2050.9	2209.6	2178.9	1995.3	1897.9	1836.7	1839.4
57.5°	7761.3	4071.3	1945.2	1892.3	1975.8	2156.7	2117.7	1953.5	1820.0	1764.3	1747.6
60°	6829.0	3178.0	1792.1	1758.7	1856.1	1995.3	1981.4	1839.4	1689.2	1625.2	1655.8
62.5°	4655.6	2329.2	1672.5	1666.9	1717.0	1853.4	1817.2	1689.2	1563.9	1522.2	1502.7
65°	2710.5	1767.1	1555.6	1533.3	1575.1	1647.4	1672.5	1538.9	1408.1	1380.3	1371.9
67.5°	1600.1	1461.0	1405.3	1369.1	1355.2	1399.8	1419.2	1341.3	1210.5	1171.6	1205.0
70°	1338.5	1299.6	1302.4	1241.1	1207.7	1177.1	1160.4	1090.9	982.3	932.2	918.3
72.5°	1154.9	1138.2	1127.0	1071.4	1040.8	971.2	898.8	829.3	748.6	706.8	709.6
75°	882.2	876.6	882.2	854.3	801.5	745.8	679.0	590.0	528.7	475.9	487.0
77.5°	526.0	542.6	551.0	539.9	517.6	467.5	425.8	367.3	308.9	267.2	261.6
80°	361.8	375.7	389.6	375.7	353.4	317.2	272.7	228.2	186.4	164.2	158.6
82.5°	275.5	289.4	297.8	283.8	256.0	217.1	186.4	155.8	122.4	100.2	94.6
85°	100.2	114.1	111.3	133.6	144.7	139.1	119.7	91.8	69.6	50.1	47.3
87.5°	27.8	25.0	27.8	27.8	27.8	25.0	22.3	22.3	22.3	13.9	11.1
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)