

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: P532894

Luminaire Tested: **GALN-SA8B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532894
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-SA8B-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 35903 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

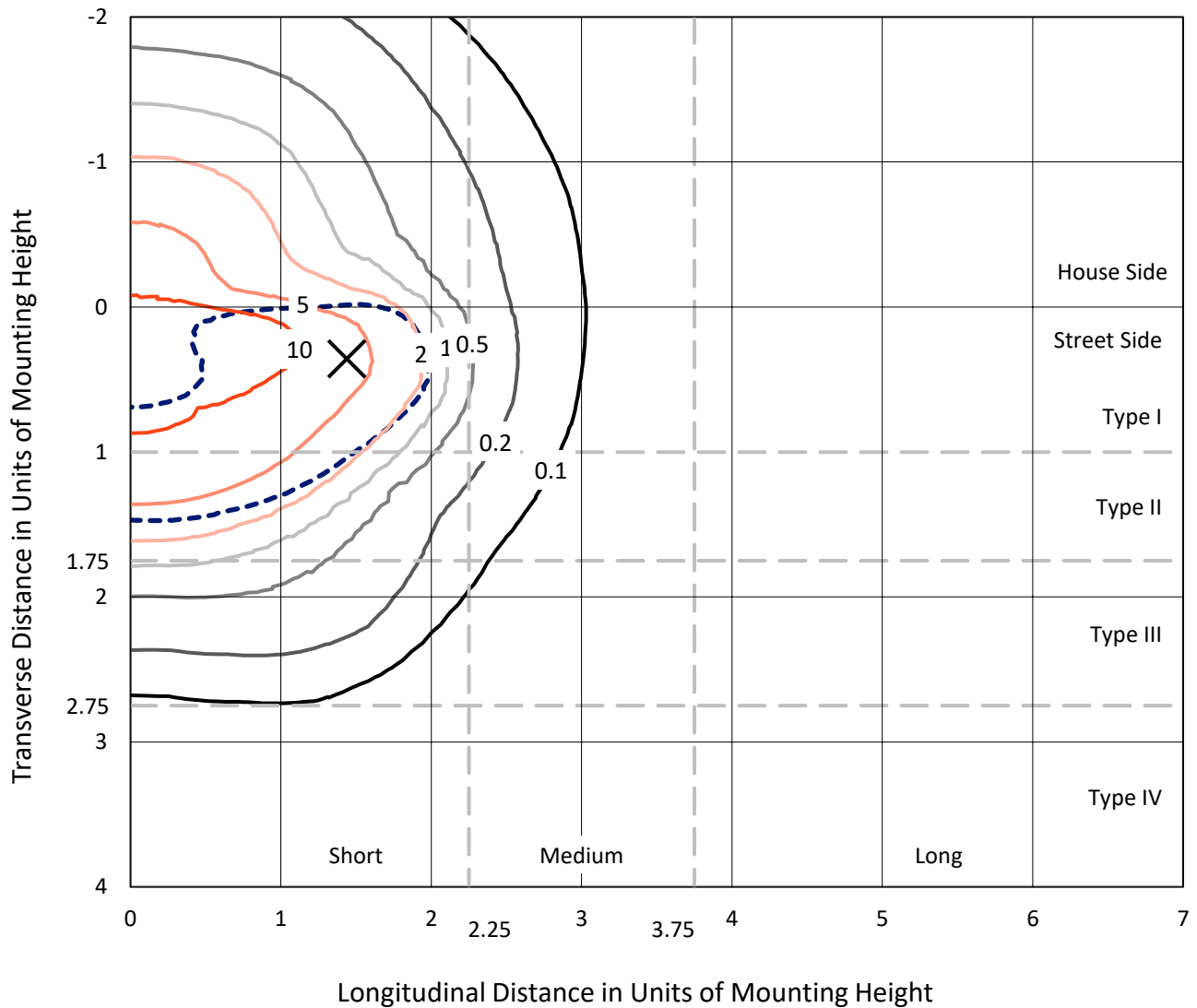
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

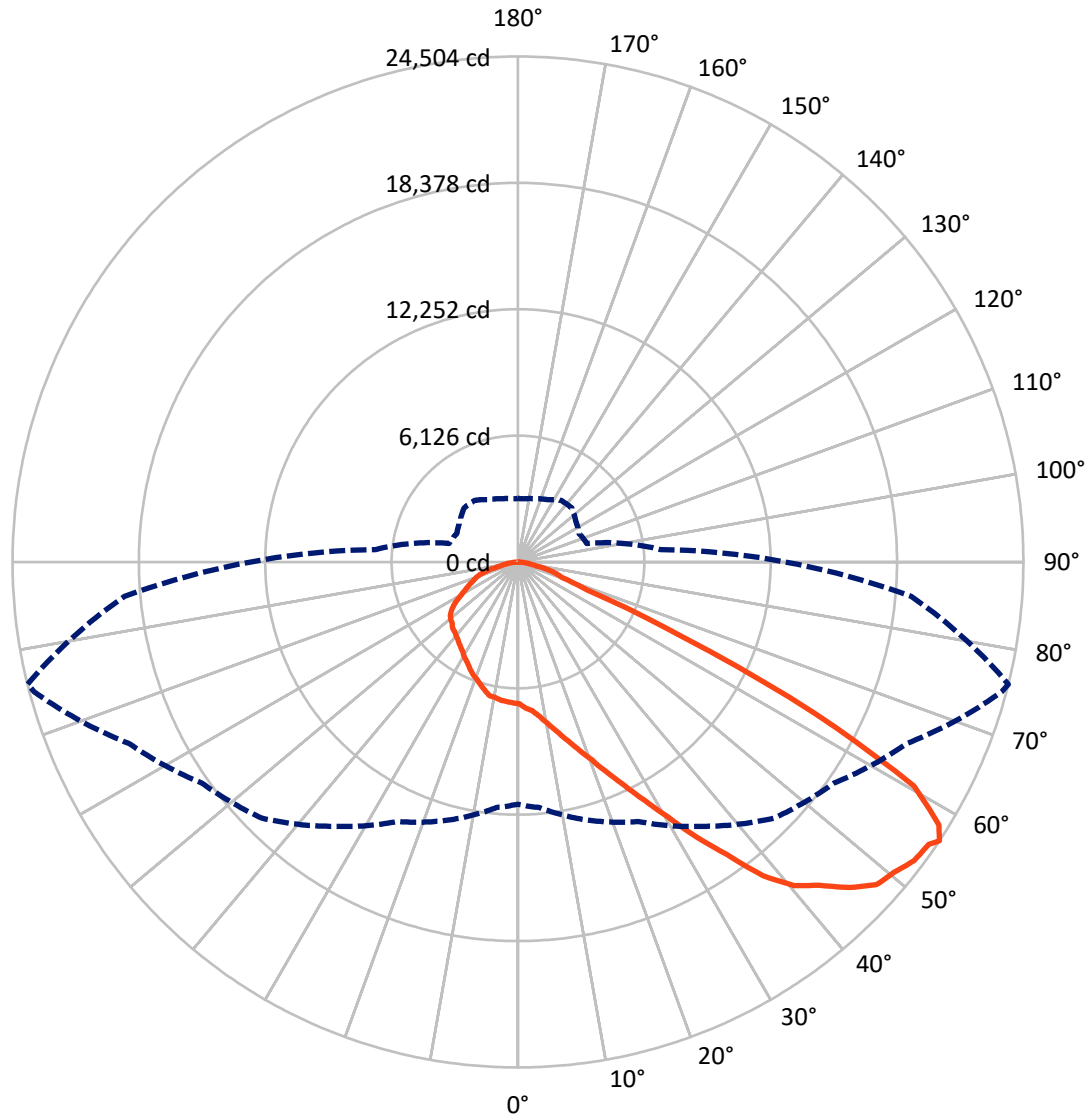
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	9653.2	0.0	9653.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	26249.8	0.0	26249.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	35903.0	0.0	35903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.3	1.9
10°-20°	2140.0	6.0
20°-30°	3742.7	10.4
30°-40°	5859.9	16.3
40°-50°	8524.5	23.7
50°-60°	9368.9	26.1
60°-70°	4181.9	11.6
70°-80°	1207.9	3.4
80°-90°	195.9	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°	35903.0	100.0
0°-180°	35903.0	100.0

Coefficient of Utilization



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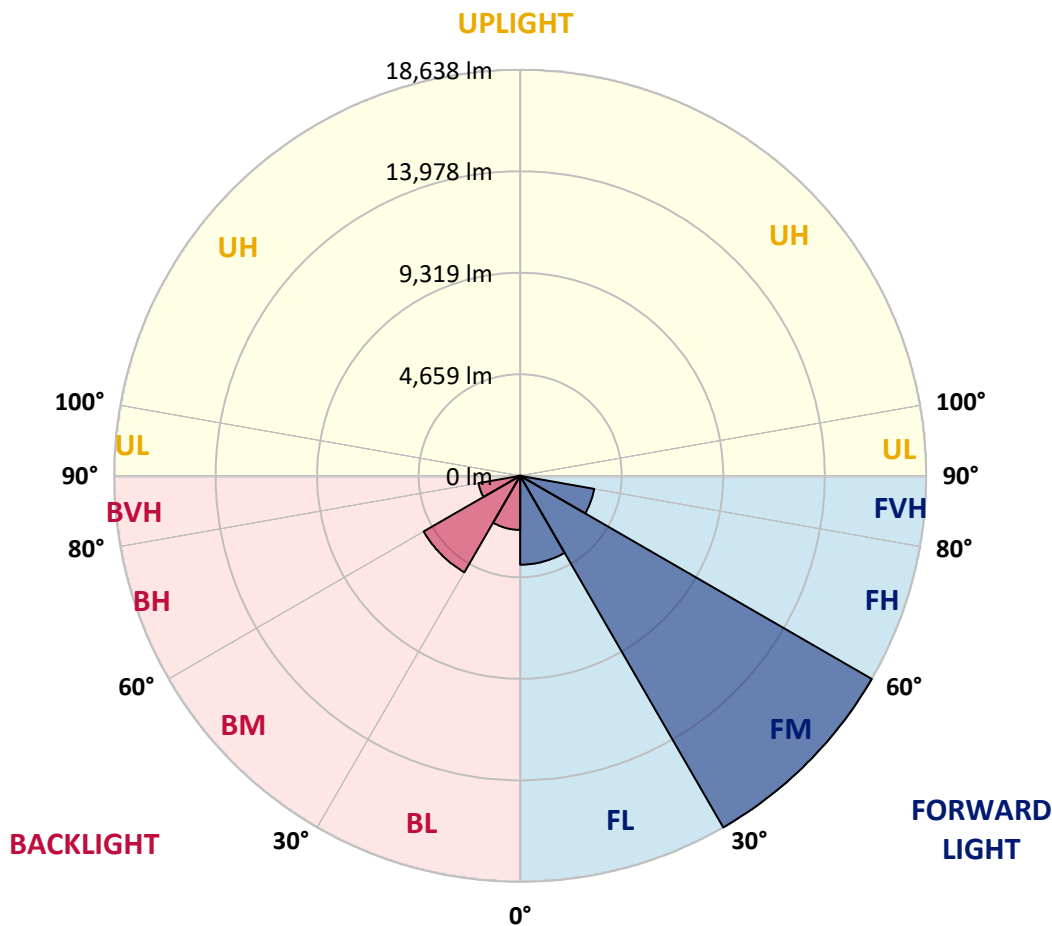
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4080.0	11.4			
FM (30°-60°)	18637.9	51.9			
FH (60°-80°)	3447.5	9.6			G2/5000
FVH (80°-90°)	84.3	0.2			G1/100
BL (0°-30°)	2484.0	6.9	B3/2500		
BM (30°-60°)	5115.4	14.2	B4/8500		
BH (60°-80°)	1942.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	111.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6
2.5°	7567.7	7446.7	7437.4	7404.8	7423.4	7339.7	7251.2	7134.9	7013.9	7088.3	6911.5
5°	8098.3	7935.4	8000.5	7888.8	7902.8	7791.1	7609.6	7474.6	7325.7	7237.3	7111.6
7.5°	8284.5	8298.4	8345.0	8326.3	8233.3	8233.3	8112.2	7874.9	7614.2	7563.1	7353.6
10°	8535.8	8540.4	8489.2	8503.2	8633.5	8573.0	8466.0	8363.6	8028.5	7968.0	7595.6
12.5°	8624.2	8540.4	8624.2	8698.7	8852.3	8936.0	8912.8	8838.3	8479.9	8438.0	7893.5
15°	8638.2	8587.0	8656.8	8824.3	8959.3	9313.0	9489.9	9438.7	8964.0	8968.6	8228.6
17.5°	8573.0	8642.8	8670.7	8815.0	9126.9	9457.3	9969.3	10039.1	9648.1	9587.6	8652.1
20°	8661.4	8610.2	8647.5	8777.8	9192.0	9708.6	10378.8	10839.6	10290.4	10248.5	9089.6
22.5°	9001.2	8931.4	8922.1	9005.8	9303.7	9838.9	10811.7	11640.1	11072.3	11095.6	9634.2
25°	9266.5	9303.7	9271.1	9266.5	9452.7	10034.4	11384.1	12594.2	12133.5	11998.5	10276.4
27.5°	9722.6	9811.0	9745.9	9834.3	9792.4	10327.6	11793.7	13650.7	13278.4	13096.9	10858.2
30°	10355.6	10402.1	10341.6	10341.6	10215.9	10737.2	12166.0	14753.8	14600.2	14353.5	11542.4
32.5°	11188.7	11258.5	11137.5	11067.7	11049.0	11346.9	12836.2	15842.8	16103.5	15894.0	12449.9
35°	12291.7	12249.8	12105.5	12040.4	11789.1	12282.4	13832.2	17094.8	17779.0	17406.7	13548.3
37.5°	13264.4	13199.3	13190.0	12826.9	12887.4	13292.4	14679.3	18044.3	19403.3	19296.3	14707.2
40°	14172.0	14232.5	14330.2	14125.5	14032.4	14479.2	15666.0	18770.3	20664.6	20622.7	15600.8
42.5°	15144.7	15088.9	15261.1	15088.9	14949.2	15582.2	16736.5	19273.0	21772.3	21427.9	16536.3
45°	16554.9	16378.1	16438.6	16452.5	16350.2	16582.9	17178.6	19636.0	22549.5	22512.3	17220.5
47.5°	17732.4	17737.1	17634.7	17555.6	17243.8	17476.5	17671.9	19864.1	23443.1	23382.6	17485.8
50°	18169.9	18109.4	18407.3	18579.5	18598.1	18123.4	18058.2	19989.7	23913.2	23647.9	17751.1
52.5°	16596.8	16652.7	17122.7	18146.7	18737.8	18788.9	18509.7	20250.4	24104.0	24048.2	17965.2
55°	13357.5	13627.5	14400.1	15582.2	16983.1	18523.7	18998.4	20520.3	24206.4	24159.9	18914.6
56°	11742.5	11951.9	12957.3	13883.4	15642.7	17560.2	18691.2	20808.9	24285.5	24504.3	19138.0
57.5°	9452.7	9694.7	10416.1	11467.9	13543.7	15726.5	17844.1	20455.1	23978.4	24062.1	19300.9
60°	5910.8	5934.1	6799.8	7493.2	8954.7	11086.3	13618.1	17797.6	22191.2	22070.1	17336.8
62.5°	3876.9	3881.6	4668.1	5236.0	5901.5	6390.2	8014.5	11803.0	16373.4	16159.3	12342.9
65°	2722.7	2783.2	3392.9	4151.5	4421.5	4165.5	4114.3	6222.6	9145.5	8838.3	6632.2
67.5°	1992.0	1996.6	2536.5	3351.0	3742.0	3169.5	2573.8	3039.2	3621.0	3611.6	3071.8
70°	1317.1	1373.0	1787.2	2504.0	2950.8	2545.8	2103.7	2173.5	2303.8	2303.8	2285.2
72.5°	767.9	819.1	1093.7	1587.1	1656.9	1591.7	1666.2	1861.7	1945.4	1940.8	1917.5
75°	437.5	460.8	521.3	660.9	823.8	972.7	1224.1	1410.2	1494.0	1545.2	1484.7
77.5°	256.0	269.9	307.2	377.0	428.2	525.9	665.5	795.9	907.6	893.6	902.9
80°	135.0	135.0	172.2	223.4	297.9	372.3	442.1	516.6	577.1	591.1	605.0
82.5°	79.1	83.8	111.7	162.9	214.1	265.3	339.8	391.0	446.8	451.5	460.8
85°	41.9	46.5	69.8	107.0	144.3	162.9	167.6	158.2	172.2	162.9	186.2
87.5°	14.0	14.0	23.3	18.6	18.6	23.3	27.9	27.9	37.2	37.2	37.2
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°	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6	6869.6
2.5°	6906.8	6906.8	6827.7	6678.8	6655.5	6595.0	6539.1	6534.5	6492.6	6455.4	6436.7
5°	7037.1	6892.8	6776.5	6641.5	6483.3	6408.8	6325.0	6232.0	6194.7	6232.0	6227.3
7.5°	7186.1	7065.1	6716.0	6464.7	6283.2	6208.7	6115.6	6017.9	6027.2	6027.2	5962.0
10°	7330.3	7167.4	6608.9	6287.8	6022.5	5966.7	5915.5	5952.7	5999.2	6008.6	5966.7
12.5°	7572.4	7204.7	6557.7	6110.9	5943.4	5822.4	5855.0	5957.4	6055.1	6027.2	6059.7
15°	7753.9	7237.3	6325.0	5929.4	5720.0	5775.8	5892.2	5962.0	6124.9	6106.3	6138.9
17.5°	7930.7	7255.9	6097.0	5687.4	5599.0	5752.6	5841.0	6041.1	6092.3	6204.0	6245.9
20°	8293.8	7293.1	5864.3	5538.5	5510.6	5687.4	5841.0	5934.1	6045.8	6143.5	6143.5
22.5°	8479.9	7274.5	5710.7	5343.0	5431.4	5543.1	5682.8	5841.0	5841.0	5934.1	5938.7
25°	8712.6	7200.0	5468.7	5249.9	5315.1	5422.1	5580.4	5524.5	5585.0	5585.0	5659.5
27.5°	8977.9	7041.8	5259.2	5082.4	5212.7	5329.0	5352.3	5315.1	5245.3	5236.0	5208.0
30°	9192.0	6846.3	5105.6	5026.5	5133.6	5198.7	5124.3	5045.1	4924.1	4914.8	4849.7
32.5°	9485.2	6604.3	4914.8	4886.9	5007.9	5012.6	4989.3	4868.3	4691.4	4617.0	4542.5
35°	9978.6	6464.7	4770.5	4812.4	4849.7	4835.7	4793.8	4663.5	4486.6	4454.1	4426.1
37.5°	10341.6	6362.3	4621.6	4672.8	4705.4	4724.0	4598.3	4454.1	4458.7	4393.6	4374.9
40°	10751.2	6297.1	4500.6	4523.9	4528.5	4589.0	4435.4	4365.6	4398.2	4356.3	4384.2
42.5°	11277.1	6315.7	4374.9	4356.3	4444.7	4421.5	4347.0	4253.9	4272.5	4146.9	4165.5
45°	11556.3	6441.4	4300.5	4216.7	4314.4	4309.8	4212.0	4123.6	4011.9	3769.9	3779.2
47.5°	11742.5	6474.0	4123.6	4067.8	4170.2	4230.7	4119.0	3914.2	3755.9	3583.7	3541.8
50°	11933.3	6534.5	4039.8	3923.5	3965.4	4109.6	3970.0	3774.5	3621.0	3467.4	3490.6
52.5°	12100.9	6650.8	3876.9	3704.7	3779.2	3937.4	3863.0	3625.6	3458.1	3332.4	3295.2
55°	12845.6	6911.5	3602.3	3378.9	3555.8	3755.9	3714.0	3425.5	3244.0	3178.8	3169.5
56°	12961.9	6920.8	3458.1	3267.2	3430.1	3695.4	3644.2	3337.1	3174.2	3071.8	3076.4
57.5°	12980.5	6809.1	3253.3	3164.8	3304.5	3607.0	3541.8	3267.2	3043.8	2950.8	2922.8
60°	11421.4	5315.1	2997.3	2941.4	3104.3	3337.1	3313.8	3076.4	2825.1	2718.0	2769.2
62.5°	7786.5	3895.6	2797.2	2787.9	2871.6	3099.7	3039.2	2825.1	2615.7	2545.8	2513.3
65°	4533.2	2955.4	2601.7	2564.5	2634.3	2755.3	2797.2	2573.8	2355.0	2308.5	2294.5
67.5°	2676.2	2443.4	2350.4	2289.9	2266.6	2341.1	2373.6	2243.3	2024.6	1959.4	2015.3
70°	2238.7	2173.5	2178.2	2075.8	2019.9	1968.7	1940.8	1824.4	1642.9	1559.2	1535.9
72.5°	1931.5	1903.6	1884.9	1791.9	1740.7	1624.3	1503.3	1386.9	1252.0	1182.2	1186.8
75°	1475.4	1466.1	1475.4	1428.8	1340.4	1247.3	1135.6	986.7	884.3	795.9	814.5
77.5°	879.6	907.6	921.5	902.9	865.7	781.9	712.1	614.4	516.6	446.8	437.5
80°	605.0	628.3	651.6	628.3	591.1	530.6	456.1	381.6	311.8	274.6	265.3
82.5°	460.8	484.0	498.0	474.7	428.2	363.0	311.8	260.6	204.8	167.6	158.2
85°	167.6	190.8	186.2	223.4	242.0	232.7	200.1	153.6	116.4	83.8	79.1
87.5°	46.5	41.9	46.5	46.5	46.5	41.9	37.2	37.2	37.2	23.3	18.6
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)