

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: P532886

Luminaire Tested: **GALN-SA8B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36279 lumens
Efficiency: N/A
Efficacy: 111.6 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

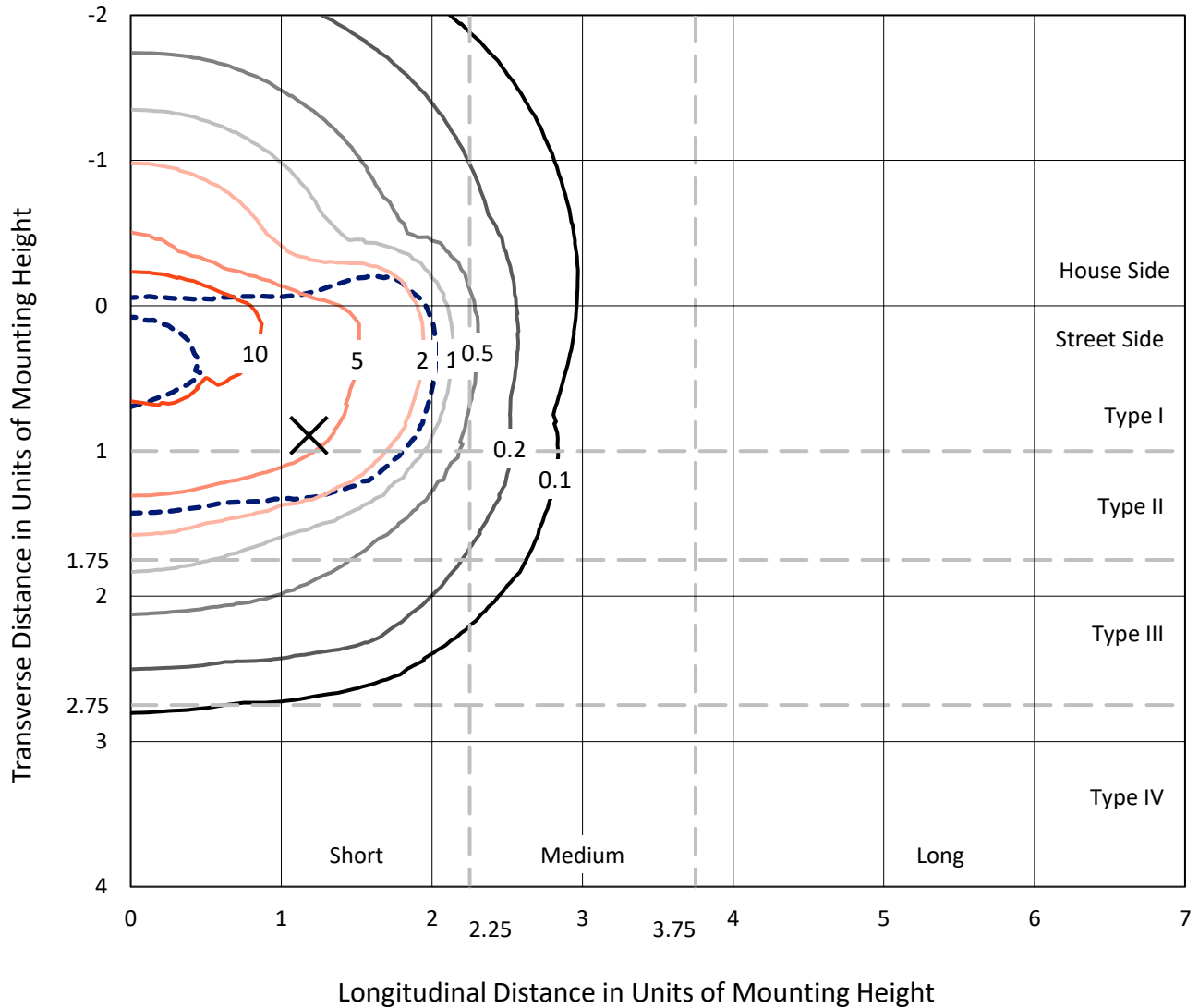
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

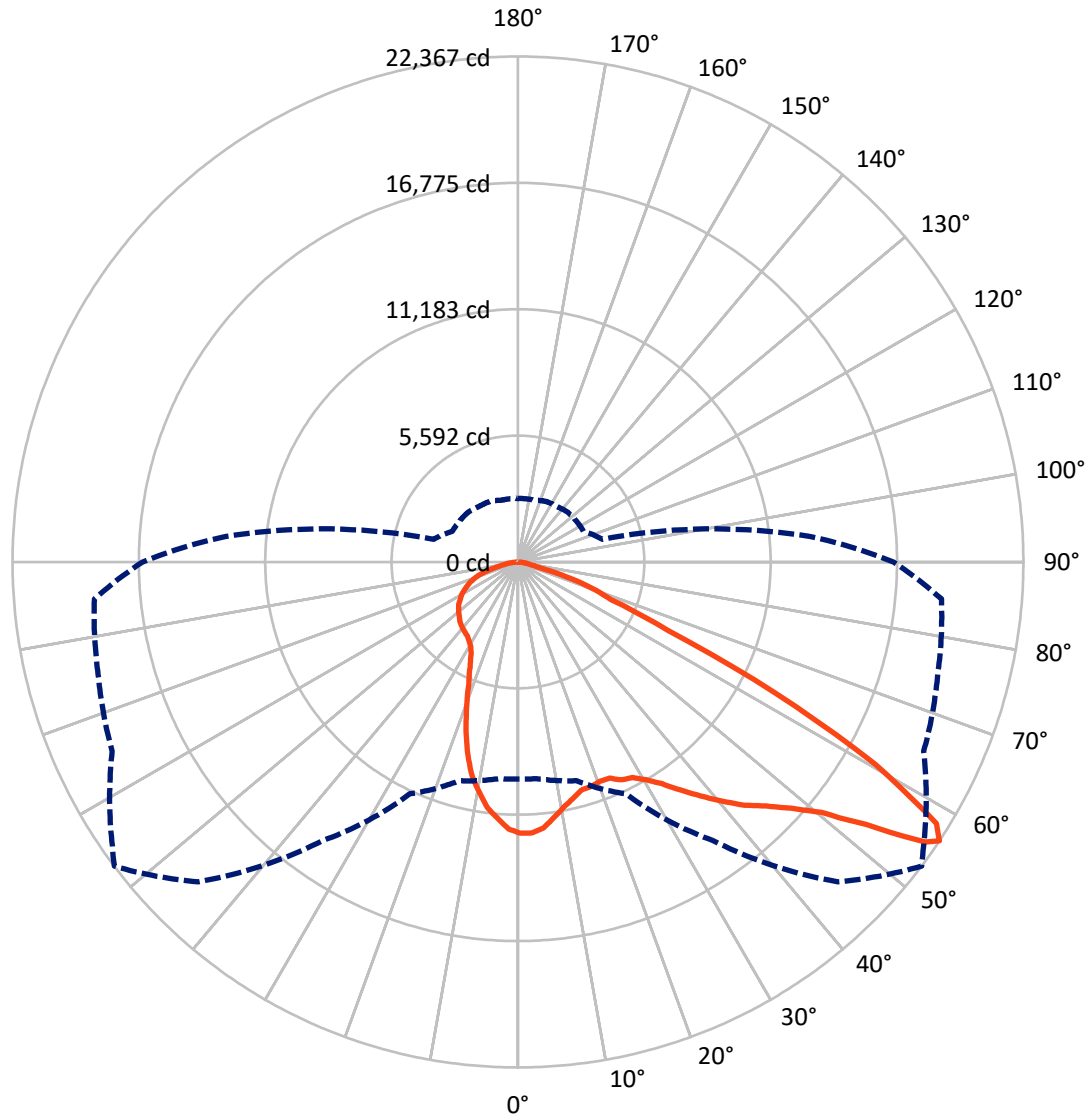
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10587.0	0.0	10587.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25692.0	0.0	25692.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	36279.0	0.0	36279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.6	2.9
10°-20°	2653.8	7.3
20°-30°	3913.3	10.8
30°-40°	5591.3	15.4
40°-50°	7695.7	21.2
50°-60°	9094.3	25.1
60°-70°	4846.6	13.4
70°-80°	1229.6	3.4
80°-90°	191.7	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°	36279.0	100.0
0°-180°	36279.0	100.0

Coefficient of Utilization



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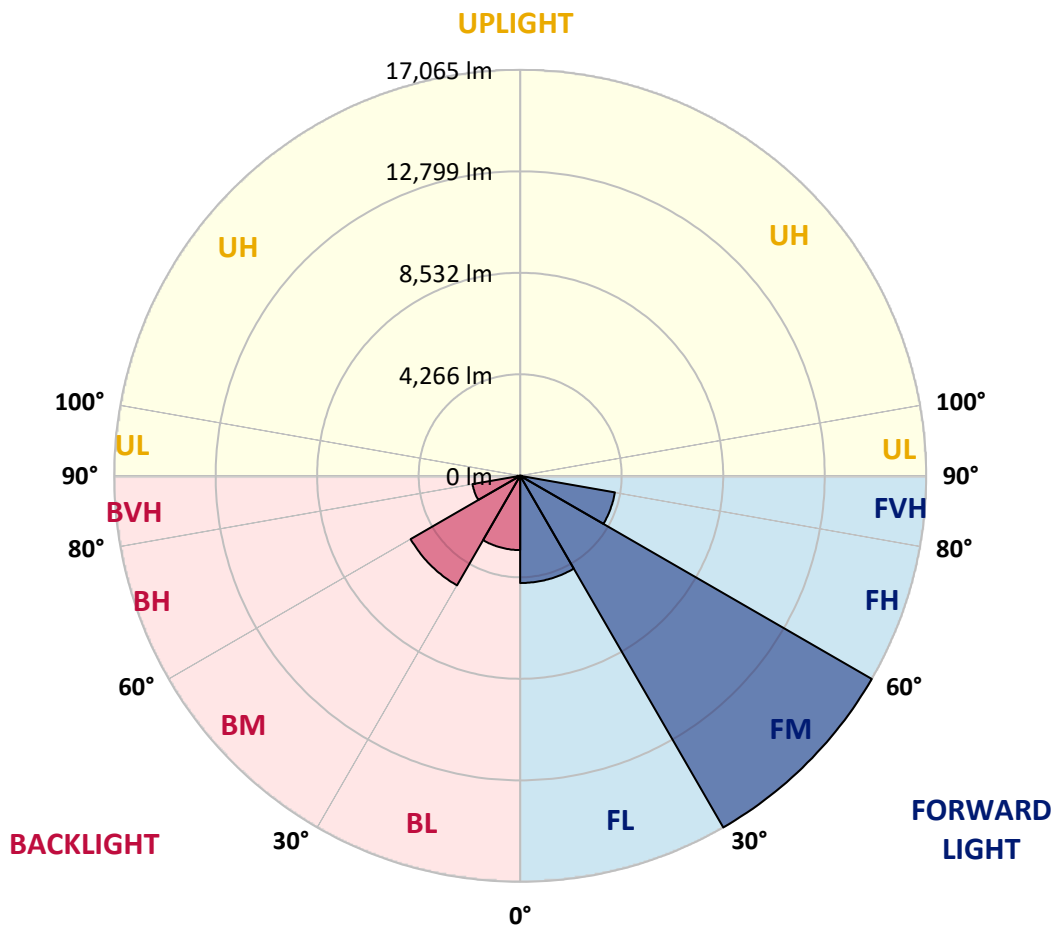
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4507.1	12.4			
FM (30°-60°)	17064.9	47.0			
FH (60°-80°)	4042.8	11.1			G2/5000
FVH (80°-90°)	77.1	0.2			G1/100
BL (0°-30°)	3122.5	8.6	B4/5000		
BM (30°-60°)	5316.4	14.7	B4/8500		
BH (60°-80°)	2033.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	114.7	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°	53°	55°	65°	75°	85°
0°	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5
2.5°	11853.6	11751.2	11811.7	11788.4	11979.3	12035.1	12007.2	12030.4	12137.5	12086.3	11979.3
5°	11076.4	11220.7	11248.6	11318.4	11430.1	11648.8	11821.0	11867.6	11918.8	12156.1	12132.8
7.5°	10369.0	10466.7	10415.5	10620.3	10862.3	11216.0	11425.4	11462.7	11932.7	12063.0	12160.8
10°	9922.2	9824.5	10057.2	10113.0	10387.6	10792.5	11043.8	11197.4	11625.6	12142.1	12202.6
12.5°	9508.0	9475.4	9615.0	9773.3	10080.4	10499.3	10755.3	10815.8	11476.6	12021.1	12305.0
15°	9200.8	9163.6	9303.2	9419.6	9777.9	10150.3	10476.0	10648.2	11313.7	11951.3	12216.6
17.5°	8958.8	8954.2	9033.3	9242.7	9610.4	9922.2	10448.1	10457.4	11230.0	12058.4	12291.1
20°	8944.9	8940.2	8954.2	9186.9	9522.0	9903.6	10359.7	10443.5	11230.0	11983.9	12295.7
22.5°	9061.2	8986.8	9070.5	9219.5	9461.5	9936.2	10392.3	10578.4	11499.9	12351.6	12505.1
25°	9247.4	9266.0	9312.5	9363.7	9503.4	10010.6	10680.8	10834.4	11816.4	12668.0	12793.7
27.5°	9587.1	9577.8	9596.4	9624.4	9745.4	10080.4	10797.2	11192.7	12477.2	13231.2	13105.5
30°	10085.1	10052.5	10127.0	10224.7	10113.0	10303.8	11183.4	11481.3	13091.5	13798.9	13454.6
32.5°	10536.5	10657.5	10797.2	10839.0	10704.1	10741.3	11695.4	11997.9	13603.5	14497.0	13882.7
35°	11099.7	11197.4	11383.5	11513.9	11490.6	11378.9	12393.5	12793.7	14343.5	15009.0	14334.1
37.5°	11648.8	11765.2	12072.3	12458.6	12244.5	12193.3	13138.1	13468.5	14571.5	15283.6	14664.6
40°	12533.1	12528.4	13059.0	13259.1	13449.9	13361.5	13910.6	14022.3	14692.5	15223.1	14673.9
42.5°	13570.9	13505.7	14045.6	14357.4	14604.1	14613.4	14715.8	14678.5	14748.4	14915.9	14576.2
45°	14557.5	14697.2	15241.7	15800.1	16046.8	16074.7	15395.2	15325.4	14846.1	14827.5	14390.0
47.5°	15762.9	15795.5	16242.3	16977.6	17550.0	17354.6	16274.8	16121.3	15274.2	15418.5	14701.8
50°	15832.7	16074.7	16475.0	17340.6	19099.8	19048.6	17415.1	17126.5	15963.0	16256.2	15572.1
52.5°	14371.4	14315.5	14790.2	16205.0	18983.4	20733.3	19304.6	18615.8	17443.0	17219.6	16982.2
55°	10950.7	11081.0	11499.9	12928.7	16484.3	20756.6	21878.2	21315.1	19025.3	18643.7	18369.1
56°	9605.7	9624.4	10019.9	11323.0	15041.5	20016.6	22366.9	21910.8	19811.8	19230.1	18811.2
57.5°	7962.9	7855.9	8060.6	8772.7	12696.0	18452.9	21831.7	22278.4	20733.3	19863.0	19281.3
60°	6268.9	6245.6	6161.8	6292.1	8023.4	13901.3	18173.7	19178.9	20640.2	19267.3	18466.9
62.5°	5119.3	5003.0	5170.5	5356.7	5575.4	8623.8	12770.4	13361.5	16386.5	15381.3	13873.4
65°	3969.8	3914.0	4123.4	4728.4	4858.7	5477.7	7274.1	7730.2	9675.6	9503.4	8367.8
67.5°	2731.9	2741.2	2922.7	3844.2	4505.0	4449.2	4453.8	4691.2	5049.5	3751.1	3267.1
70°	1731.3	1726.6	1824.3	2475.9	3625.4	3662.7	3476.5	3406.7	3229.8	1954.7	2071.0
72.5°	1112.3	1079.7	1130.9	1368.3	1875.5	2168.7	2233.9	2275.8	1870.9	1535.8	1666.1
75°	628.3	595.7	577.1	637.6	740.0	856.3	940.1	968.0	1084.4	1163.5	1233.3
77.5°	190.8	172.2	209.4	279.2	367.7	493.3	600.4	619.0	730.7	823.7	893.6
80°	83.8	93.1	130.3	186.2	260.6	349.0	423.5	451.4	525.9	595.7	614.3
82.5°	51.2	55.8	88.4	125.7	181.5	246.7	302.5	311.8	386.3	442.1	456.1
85°	18.6	23.3	46.5	74.5	116.3	158.2	158.2	172.2	158.2	158.2	172.2
87.5°	0.0	0.0	4.7	9.3	9.3	14.0	18.6	18.6	23.3	27.9	32.6
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°	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5	12002.5
2.5°	12035.1	12011.8	11974.6	11839.6	11825.7	11783.8	11551.1	11513.9	11551.1	11439.4	11448.7
5°	12011.8	12081.6	11802.4	11667.4	11416.1	11234.6	11025.2	10918.2	10727.3	10606.3	10741.3
7.5°	12114.2	12086.3	11737.2	11444.0	11067.1	10606.3	10238.7	10029.3	9694.2	9601.1	9670.9
10°	12077.0	11928.1	11518.5	11132.2	10420.2	10015.3	9419.6	8842.5	8526.0	8363.1	8339.9
12.5°	12025.8	11983.9	11299.8	10634.3	9885.0	9033.3	8195.6	7651.1	7134.5	6911.1	6943.7
15°	12086.3	11732.6	10890.2	10047.9	9051.9	7935.0	7032.1	6329.4	5971.0	5826.7	5826.7
17.5°	12058.4	11611.6	10694.8	9391.7	8130.4	6808.7	5817.4	5393.9	5245.0	5245.0	5286.9
20°	12072.3	11690.7	10299.2	8735.5	7041.4	5733.7	5012.3	4858.7	4923.9	4947.1	4970.4
22.5°	12151.4	11430.1	9912.9	8014.1	6031.5	4905.3	4551.6	4556.2	4672.6	4798.2	4774.9
25°	12249.2	11327.7	9442.9	7297.4	5259.0	4500.4	4388.7	4374.7	4463.1	4528.3	4537.6
27.5°	12165.4	11150.9	8963.5	6403.8	4626.0	4230.4	4207.2	4216.5	4244.4	4374.7	4332.8
30°	12440.0	11202.0	8363.1	5654.5	4277.0	4142.0	4114.1	4100.1	4142.0	4179.2	4146.7
32.5°	12779.7	11020.5	7916.4	4933.2	4104.8	4076.9	4021.0	4002.4	4025.7	3988.4	4007.0
35°	12928.7	10988.0	7334.6	4416.6	3969.8	3946.5	3914.0	3909.3	3914.0	3881.4	3853.5
37.5°	13012.4	11141.5	6669.1	4179.2	3886.0	3909.3	3834.9	3825.5	3741.8	3760.4	3774.3
40°	13156.7	10904.2	6129.2	3951.2	3834.9	3788.3	3723.2	3709.2	3653.3	3620.8	3653.3
42.5°	12947.3	10834.4	5598.7	3853.5	3760.4	3709.2	3662.7	3583.5	3564.9	3537.0	3518.4
45°	12779.7	10434.1	5124.0	3732.5	3672.0	3644.0	3555.6	3471.8	3402.0	3430.0	3388.1
47.5°	12905.4	10294.5	4653.9	3630.1	3551.0	3518.4	3430.0	3364.8	3295.0	3262.4	3253.1
50°	13408.0	10555.1	4258.4	3555.6	3448.6	3430.0	3313.6	3239.1	3174.0	3150.7	3160.0
52.5°	14608.7	11267.2	3988.4	3402.0	3350.8	3267.1	3201.9	3108.8	3066.9	2992.5	3039.0
55°	16130.6	12426.0	3918.6	3257.8	3229.8	3155.4	3066.9	2997.1	2918.0	2857.5	2843.6
56°	16619.2	12979.9	3862.8	3201.9	3155.4	3113.5	2997.1	2955.3	2829.6	2815.6	2806.3
57.5°	17014.8	13468.5	3872.1	3094.9	3048.3	3011.1	2941.3	2838.9	2755.1	2703.9	2727.2
60°	16121.3	12607.5	3695.2	2932.0	2922.7	2852.9	2755.1	2708.6	2606.2	2545.7	2531.7
62.5°	11983.9	8558.6	2997.1	2722.6	2717.9	2643.4	2531.7	2480.6	2461.9	2378.2	2378.2
65°	6901.8	5366.0	2592.2	2550.4	2513.1	2438.7	2327.0	2285.1	2238.5	2210.6	2187.4
67.5°	2945.9	2783.1	2354.9	2350.2	2308.4	2215.3	2103.6	2038.4	1977.9	1922.1	1950.0
70°	2136.2	2168.7	2126.9	2103.6	2052.4	1936.0	1838.3	1759.2	1666.1	1628.9	1656.8
72.5°	1694.0	1763.8	1824.3	1829.0	1768.5	1633.5	1526.5	1419.5	1317.1	1265.9	1289.1
75°	1284.5	1331.0	1391.5	1405.5	1317.1	1224.0	1121.6	1009.9	930.8	870.3	879.6
77.5°	926.1	916.8	972.7	963.4	921.5	856.3	763.2	660.9	572.4	516.6	521.2
80°	632.9	646.9	679.5	674.8	623.6	581.7	511.9	428.2	363.0	316.5	307.2
82.5°	442.1	465.4	493.3	470.0	428.2	386.3	335.1	274.6	223.4	186.2	176.8
85°	158.2	181.5	209.4	223.4	237.4	228.0	190.8	153.6	111.7	93.1	88.4
87.5°	32.6	37.2	41.9	41.9	41.9	37.2	32.6	32.6	27.9	14.0	14.0
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)