

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: P532912

Luminaire Tested: **GALN-SA8B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532912
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-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 38945 lumens
Efficiency: N/A
Efficacy: 119.8 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

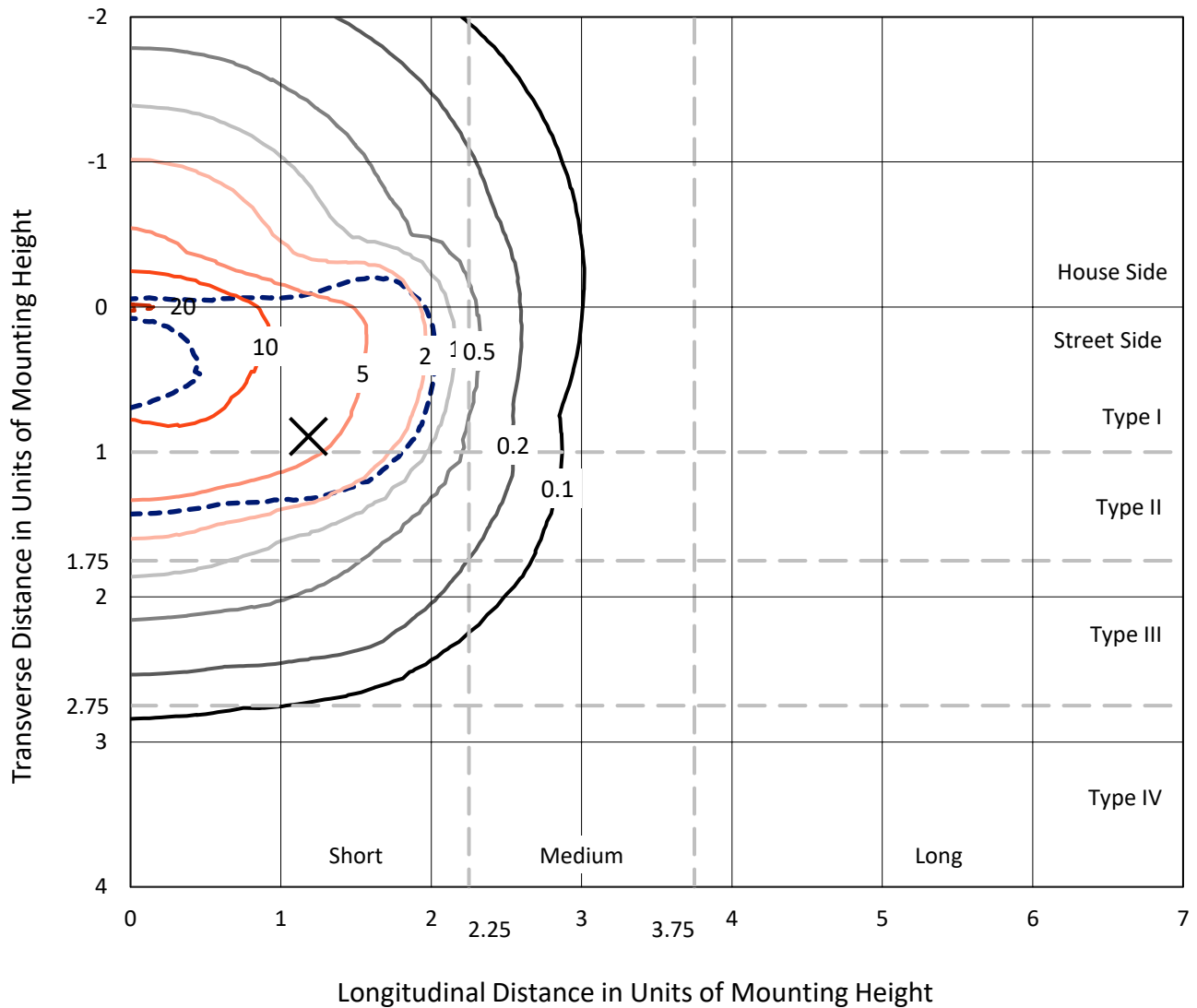
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

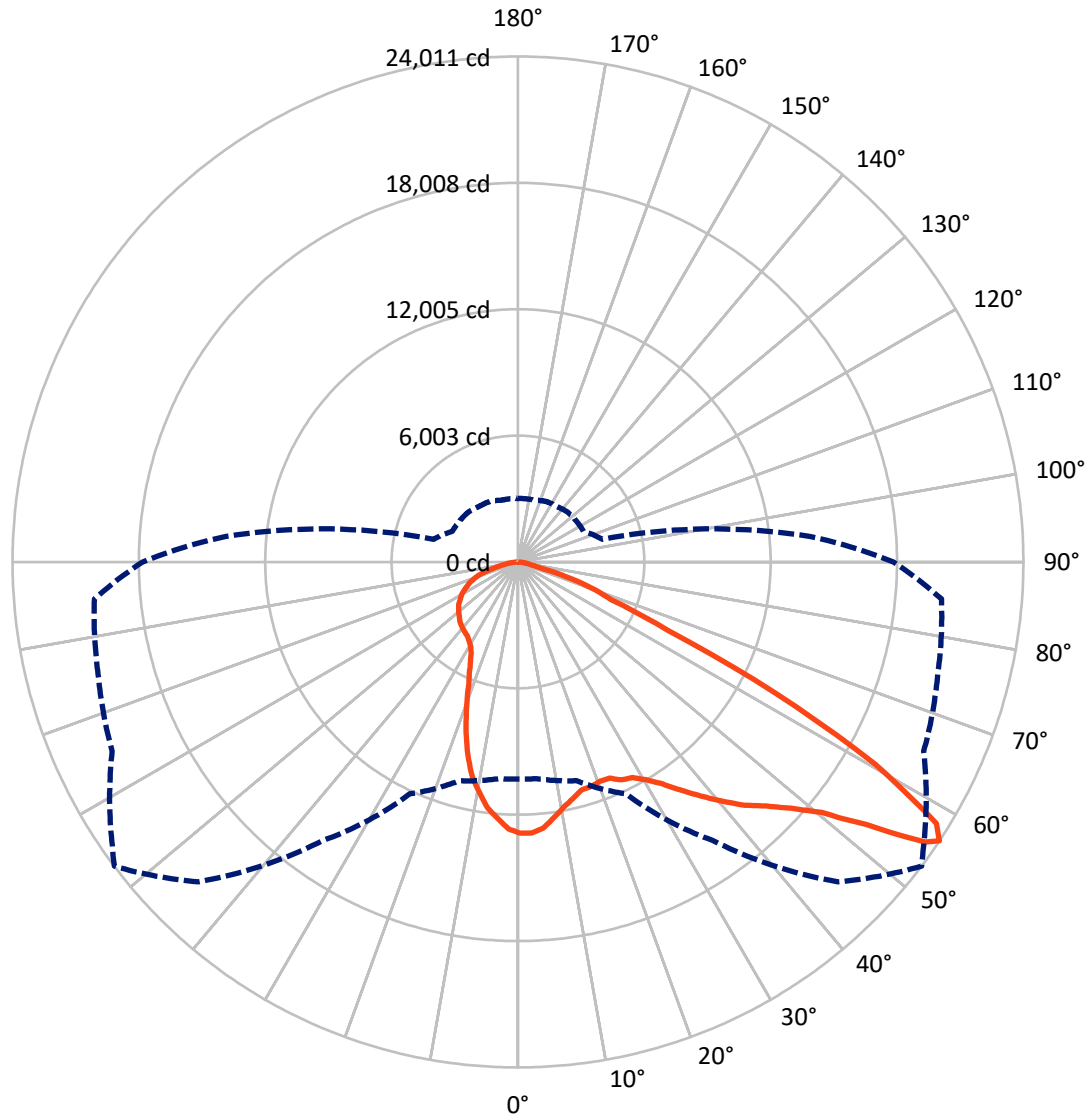
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	11365.0	0.0	11365.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27580.0	0.0	27580.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	38945.0	0.0	38945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1140.6	2.9
10°-20°	2848.8	7.3
20°-30°	4200.9	10.8
30°-40°	6002.2	15.4
40°-50°	8261.3	21.2
50°-60°	9762.6	25.1
60°-70°	5202.8	13.4
70°-80°	1319.9	3.4
80°-90°	205.8	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°	38945.0	100.0
0°-180°	38945.0	100.0

Coefficient of Utilization



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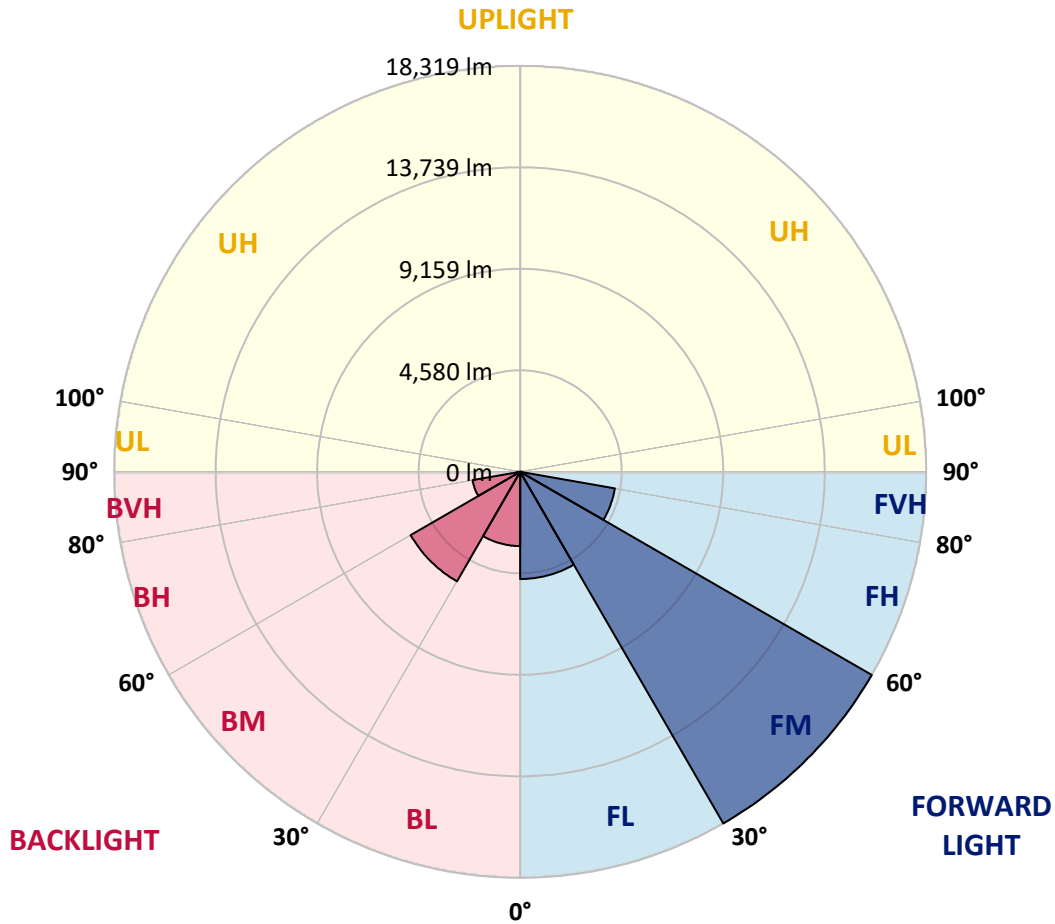
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4838.4	12.4			
FM (30°-60°)	18319.0	47.0			
FH (60°-80°)	4339.9	11.1			G2/5000
FVH (80°-90°)	82.7	0.2			G1/100
BL (0°-30°)	3352.0	8.6	B4/5000		
BM (30°-60°)	5707.1	14.7	B4/8500		
BH (60°-80°)	2182.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	123.1	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°	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5
2.5°	12724.7	12614.8	12679.7	12654.7	12859.6	12919.5	12889.5	12914.5	13029.4	12974.5	12859.6
5°	11890.3	12045.2	12075.2	12150.1	12270.0	12504.8	12689.7	12739.7	12794.6	13049.4	13024.4
7.5°	11131.0	11235.9	11180.9	11400.7	11660.5	12040.2	12265.0	12305.0	12809.6	12949.5	13054.4
10°	10651.4	10546.4	10796.2	10856.2	11150.9	11585.6	11855.4	12020.2	12479.9	13034.4	13099.4
12.5°	10206.7	10171.7	10321.6	10491.5	10821.2	11270.9	11545.6	11610.6	12320.0	12904.5	13209.3
15°	9877.0	9837.0	9986.9	10111.8	10496.5	10896.2	11245.9	11430.7	12145.1	12829.6	13114.4
17.5°	9617.2	9612.2	9697.1	9921.9	10316.6	10651.4	11215.9	11225.9	12055.2	12944.5	13194.3
20°	9602.2	9597.2	9612.2	9862.0	10221.7	10631.4	11121.0	11210.9	12055.2	12864.6	13199.3
22.5°	9727.1	9647.2	9737.1	9897.0	10156.8	10666.3	11155.9	11355.8	12345.0	13259.2	13424.1
25°	9926.9	9946.9	9996.9	10051.8	10201.7	10746.3	11465.7	11630.6	12684.7	13599.0	13733.9
27.5°	10291.6	10281.7	10301.6	10331.6	10461.5	10821.2	11590.6	12015.2	13394.1	14203.5	14068.6
30°	10826.2	10791.2	10871.2	10976.1	10856.2	11061.0	12005.3	12325.0	14053.6	14813.0	14443.3
32.5°	11310.8	11440.7	11590.6	11635.6	11490.7	11530.6	12554.8	12879.5	14603.1	15562.4	14902.9
35°	11915.3	12020.2	12220.1	12360.0	12335.0	12215.1	13304.2	13733.9	15397.5	16111.9	15387.5
37.5°	12504.8	12629.7	12959.5	13374.1	13144.3	13089.4	14103.6	14458.3	15642.3	16406.7	15742.2
40°	13454.1	13449.1	14018.6	14233.4	14438.3	14343.4	14932.9	15052.8	15772.2	16341.7	15752.2
42.5°	14568.2	14498.2	15077.8	15412.5	15677.3	15687.3	15797.2	15757.2	15832.1	16012.0	15647.3
45°	15627.3	15777.2	16361.7	16961.2	17226.0	17256.0	16526.6	16451.6	15937.1	15917.1	15447.5
47.5°	16921.3	16956.2	17435.8	18225.2	18839.7	18629.9	17470.8	17306.0	16396.7	16551.6	15782.2
50°	16996.2	17256.0	17685.6	18614.9	20503.4	20448.4	18694.8	18385.1	17136.1	17450.8	16716.4
52.5°	15427.5	15367.5	15877.1	17395.9	20378.5	22256.9	20723.2	19983.8	18724.8	18485.0	18230.2
55°	11755.5	11895.3	12345.0	13878.7	17695.6	22281.9	23485.9	22881.4	20423.4	20013.8	19719.0
56°	10311.6	10331.6	10756.3	12155.1	16146.9	21487.6	24010.5	23520.9	21267.7	20643.2	20193.6
57.5°	8548.1	8433.2	8653.0	9417.4	13628.9	19808.9	23436.0	23915.6	22256.9	21322.7	20698.2
60°	6729.5	6704.6	6614.6	6754.5	8613.0	14922.9	19509.2	20588.3	22157.0	20683.2	19823.9
62.5°	5495.5	5370.6	5550.5	5750.3	5985.1	9257.5	13708.9	14343.4	17590.7	16511.6	14892.9
65°	4261.5	4201.6	4426.4	5075.9	5215.8	5880.2	7808.7	8298.3	10386.6	10201.7	8982.7
67.5°	2932.6	2942.6	3137.5	4126.7	4836.1	4776.1	4781.1	5035.9	5420.6	4026.7	3507.2
70°	1858.5	1853.5	1958.4	2657.8	3891.8	3931.8	3732.0	3657.0	3467.2	2098.3	2223.2
72.5°	1194.0	1159.1	1214.0	1468.8	2013.4	2328.1	2398.1	2443.0	2008.4	1648.7	1788.5
75°	674.5	639.5	619.5	684.4	794.4	919.3	1009.2	1039.2	1164.1	1249.0	1323.9
77.5°	204.8	184.8	224.8	299.8	394.7	529.6	644.5	664.5	784.4	884.3	959.2
80°	89.9	99.9	139.9	199.8	279.8	374.7	454.6	484.6	564.5	639.5	659.5
82.5°	55.0	60.0	94.9	134.9	194.8	264.8	324.7	334.7	414.7	474.6	489.6
85°	20.0	25.0	50.0	79.9	124.9	169.9	169.9	184.8	169.9	169.9	184.8
87.5°	0.0	0.0	5.0	10.0	10.0	15.0	20.0	20.0	25.0	30.0	35.0
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°	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5	12884.5
2.5°	12919.5	12894.5	12854.6	12709.7	12694.7	12649.7	12399.9	12360.0	12399.9	12280.0	12290.0
5°	12894.5	12969.5	12669.7	12524.8	12255.1	12060.2	11835.4	11720.5	11515.7	11385.8	11530.6
7.5°	13004.4	12974.5	12599.8	12285.0	11880.4	11385.8	10991.1	10766.3	10406.6	10306.6	10381.6
10°	12964.5	12804.6	12365.0	11950.3	11185.9	10751.3	10111.8	9492.3	9152.6	8977.7	8952.7
12.5°	12909.5	12864.6	12130.2	11415.7	10611.4	9697.1	8797.9	8213.3	7658.8	7419.0	7453.9
15°	12974.5	12594.8	11690.5	10786.2	9717.1	8518.1	7548.9	6794.5	6409.8	6254.9	6254.9
17.5°	12944.5	12464.9	11480.7	10081.8	8727.9	7309.1	6244.9	5790.3	5630.4	5630.4	5675.4
20°	12959.5	12549.8	11056.0	9377.4	7558.9	6155.0	5380.6	5215.8	5285.7	5310.7	5335.7
22.5°	13044.4	12270.0	10641.4	8603.0	6474.7	5265.7	4886.0	4891.0	5015.9	5150.8	5125.8
25°	13149.3	12160.1	10136.8	7833.6	5645.4	4831.1	4711.2	4696.2	4791.1	4861.1	4871.0
27.5°	13059.4	11970.3	9622.2	6874.4	4966.0	4541.3	4516.3	4526.3	4556.3	4696.2	4651.2
30°	13354.2	12025.2	8977.7	6070.1	4591.3	4446.4	4416.4	4401.4	4446.4	4486.4	4451.4
32.5°	13718.9	11830.4	8498.1	5295.7	4406.4	4376.4	4316.5	4296.5	4321.5	4281.5	4301.5
35°	13878.7	11795.4	7873.6	4741.2	4261.5	4236.6	4201.6	4196.6	4201.6	4166.6	4136.6
37.5°	13968.7	11960.3	7159.2	4486.4	4171.6	4196.6	4116.7	4106.7	4016.7	4036.7	4051.7
40°	14123.5	11705.5	6579.7	4241.6	4116.7	4066.7	3996.8	3981.8	3921.8	3886.8	3921.8
42.5°	13898.7	11630.6	6010.1	4136.6	4036.7	3981.8	3931.8	3846.9	3826.9	3796.9	3776.9
45°	13718.9	11200.9	5500.5	4006.7	3941.8	3911.8	3816.9	3727.0	3652.0	3682.0	3637.0
47.5°	13853.8	11051.0	4995.9	3896.8	3811.9	3776.9	3682.0	3612.1	3537.1	3502.2	3492.2
50°	14393.3	11330.8	4571.3	3816.9	3702.0	3682.0	3557.1	3477.2	3407.2	3382.3	3392.2
52.5°	15682.3	12095.2	4281.5	3652.0	3597.1	3507.2	3437.2	3337.3	3292.3	3212.4	3262.4
55°	17315.9	13339.2	4206.6	3497.2	3467.2	3387.3	3292.3	3217.4	3132.5	3067.5	3052.5
56°	17840.5	13933.7	4146.6	3437.2	3387.3	3342.3	3217.4	3172.4	3037.5	3022.5	3012.6
57.5°	18265.2	14458.3	4156.6	3322.3	3272.3	3232.4	3157.4	3047.5	2957.6	2902.6	2927.6
60°	17306.0	13534.0	3966.8	3147.4	3137.5	3062.5	2957.6	2907.6	2797.7	2732.8	2717.8
62.5°	12864.6	9187.5	3217.4	2922.6	2917.6	2837.7	2717.8	2662.8	2642.9	2552.9	2552.9
65°	7409.0	5760.3	2782.7	2737.8	2697.8	2617.9	2498.0	2453.0	2403.0	2373.1	2348.1
67.5°	3162.4	2987.6	2527.9	2523.0	2478.0	2378.1	2258.2	2188.2	2123.3	2063.3	2093.3
70°	2293.1	2328.1	2283.1	2258.2	2203.2	2078.3	1973.4	1888.5	1788.5	1748.6	1778.6
72.5°	1818.5	1893.5	1958.4	1963.4	1898.5	1753.6	1638.7	1523.8	1413.9	1358.9	1383.9
75°	1378.9	1428.8	1493.8	1508.8	1413.9	1313.9	1204.0	1084.1	999.2	934.2	944.2
77.5°	994.2	984.2	1044.2	1034.2	989.2	919.3	819.3	709.4	614.5	554.5	559.5
80°	679.4	694.4	729.4	724.4	669.5	624.5	549.6	459.6	389.7	339.7	329.7
82.5°	474.6	499.6	529.6	504.6	459.6	414.7	359.7	294.8	239.8	199.8	189.8
85°	169.9	194.8	224.8	239.8	254.8	244.8	204.8	164.9	119.9	99.9	94.9
87.5°	35.0	40.0	45.0	45.0	45.0	40.0	35.0	35.0	30.0	15.0	15.0
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)