

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: P530348

Luminaire Tested: **GALN-SA5C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30938 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

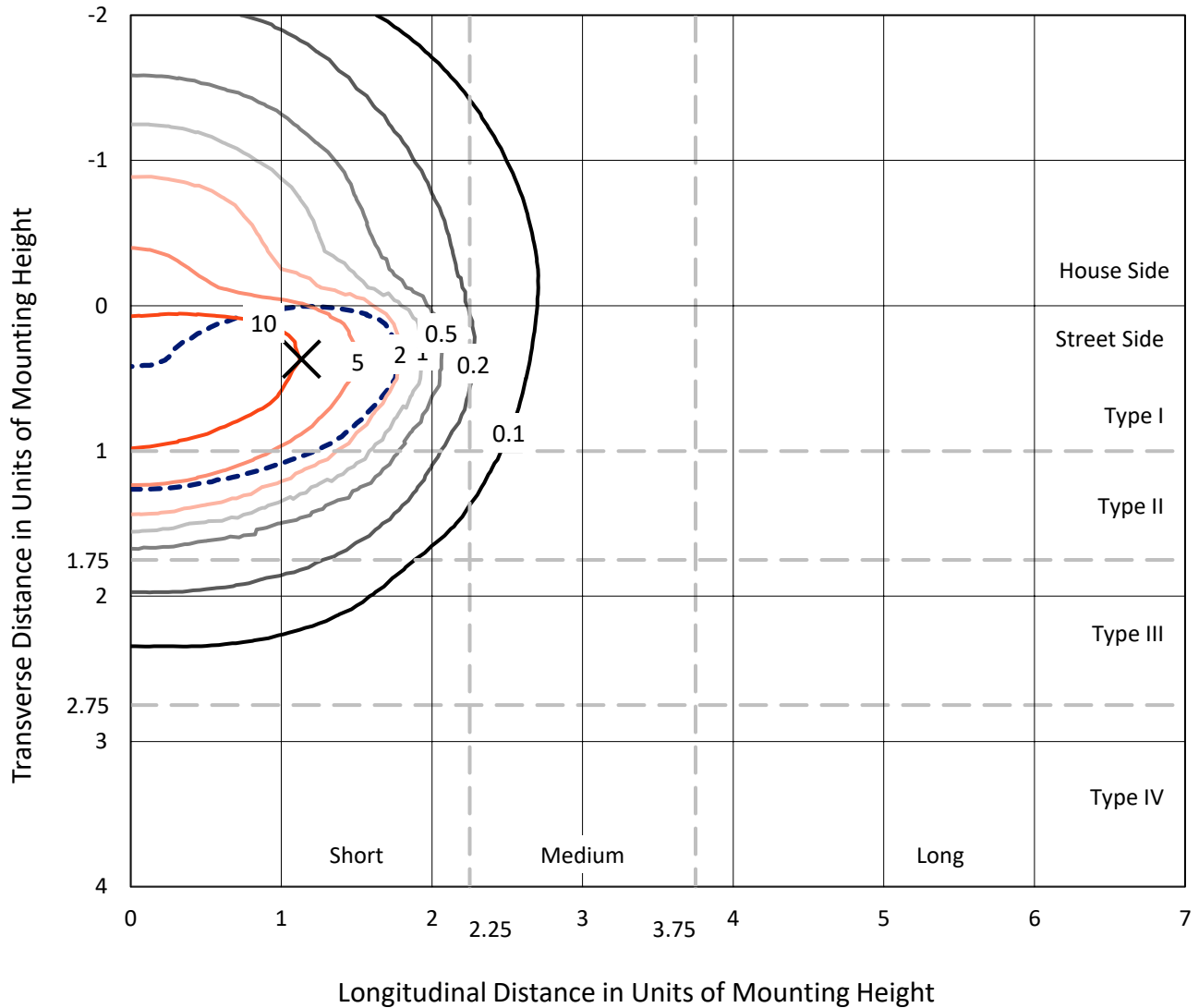
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

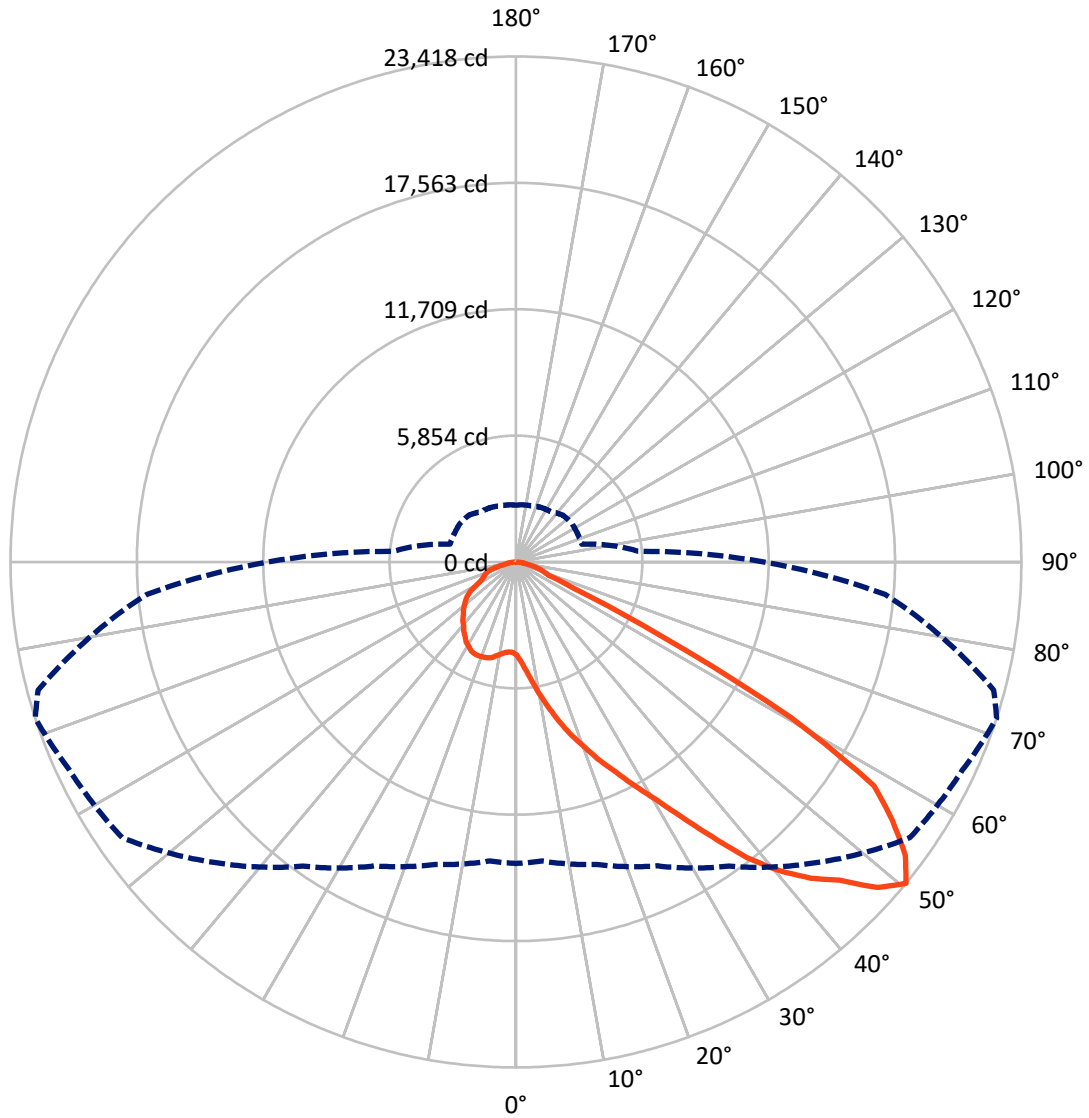
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7088.1	0.0	7088.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23849.9	0.0	23849.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	30938.0	0.0	30938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	1.6
10°-20°	1893.8	6.1
20°-30°	3672.0	11.9
30°-40°	6083.2	19.7
40°-50°	8511.7	27.5
50°-60°	7180.7	23.2
60°-70°	2188.7	7.1
70°-80°	767.8	2.5
80°-90°	133.5	0.4
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°	30938.0	100.0
0°-180°	30938.0	100.0

Coefficient of Utilization



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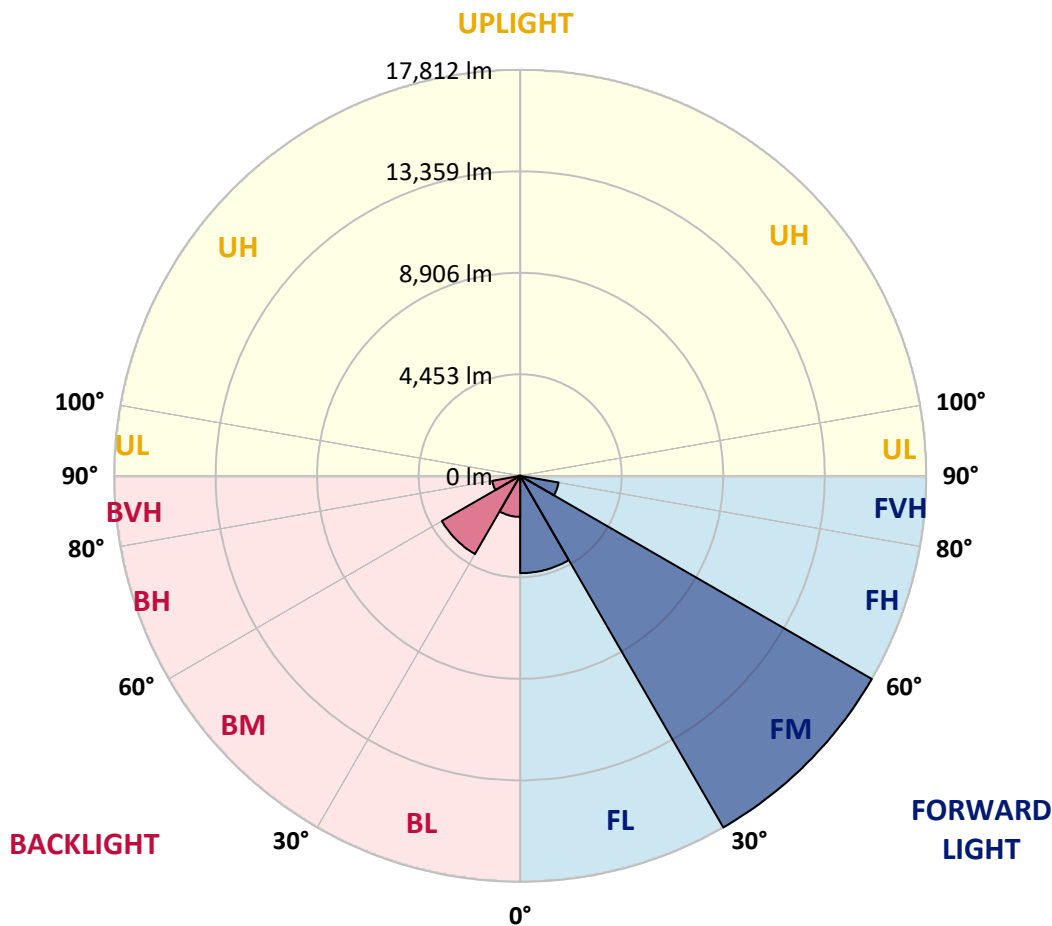
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4270.6	13.8			
FM (30°-60°)	17811.8	57.6			
FH (60°-80°)	1707.7	5.5			G1/1800
FVH (80°-90°)	59.8	0.2			G1/100
BL (0°-30°)	1801.8	5.8	B3/2500		
BM (30°-60°)	3963.8	12.8	B3/5000		
BH (60°-80°)	1248.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	73.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8
2.5°	5539.5	5505.1	5401.7	5367.3	5244.8	5022.7	4946.2	4720.3	4624.6	4536.5	4433.2
5°	7005.8	6845.0	6833.5	6638.3	6355.0	6190.4	5700.3	5371.1	5068.7	4915.5	4632.2
7.5°	7939.9	7943.7	7943.7	7782.9	7557.1	7139.8	6699.5	6106.1	5650.6	5424.7	4942.3
10°	8828.1	8751.5	8709.4	8694.1	8540.9	8135.1	7664.2	6929.2	6305.2	6041.1	5175.9
12.5°	9455.9	9390.8	9486.5	9436.8	9325.7	9061.6	8617.5	7779.1	6998.1	6642.1	5551.0
15°	9754.5	9800.4	9877.0	10014.8	9965.1	9865.5	9375.5	8651.9	7744.6	7342.7	5884.1
17.5°	10213.9	10087.6	10179.4	10351.7	10489.5	10443.6	10164.1	9283.6	8483.5	7989.7	6332.0
20°	10535.5	10462.7	10508.7	10707.7	10811.1	11071.4	10926.0	10110.5	9191.7	8671.1	6860.3
22.5°	11454.3	11347.1	11197.8	11228.4	11266.7	11450.4	11484.9	11017.8	10014.8	9463.5	7361.8
25°	12587.4	12487.9	12311.8	12131.9	12020.9	11986.4	12105.1	11729.9	10803.5	10233.0	7901.6
27.5°	13835.5	13667.0	13556.0	13184.7	12886.0	12840.1	12782.7	12579.8	11737.6	11121.2	8510.3
30°	15049.0	14915.0	14765.7	14172.4	13862.3	13812.5	13529.2	13586.6	12752.1	12066.8	9199.4
32.5°	15967.8	15979.3	15638.6	15190.7	14899.7	14635.6	14532.2	14696.8	14053.7	13502.4	9968.9
35°	16710.5	16745.0	16419.6	16013.8	15699.8	15883.6	15837.7	15914.2	15608.0	14934.2	10864.7
37.5°	17434.1	17261.8	16913.4	16718.2	16553.6	16856.0	17246.5	17311.6	17369.0	16576.5	11906.0
40°	17552.7	17568.1	17365.2	17503.0	17296.2	17751.8	18659.1	18574.9	18808.4	18115.5	13035.3
42.5°	17384.3	17418.7	17499.1	17694.4	18192.1	18739.5	20087.1	19742.5	20025.8	19409.5	14134.1
45°	17108.7	16967.0	17066.5	17809.2	18670.6	19888.0	21392.5	21124.5	21032.7	20515.8	15443.3
47.5°	15791.7	15937.2	16247.3	17162.3	18456.2	20087.1	22319.0	22257.7	22533.4	22169.7	16633.9
50°	13965.6	13908.2	14505.4	15535.2	17204.4	19696.6	22269.2	22824.3	23417.7	22912.4	17166.1
52.5°	10458.9	10765.2	11278.2	12556.8	14938.0	17568.1	21182.0	22108.4	22590.8	22483.6	16737.3
55°	6611.5	6703.3	7013.4	8533.3	10677.1	14099.6	18157.6	20305.3	21166.7	21568.6	16343.0
57.5°	3211.9	3039.7	3418.7	4639.9	6167.4	9482.7	14003.9	17686.7	19558.8	20286.1	15485.5
60°	1676.8	1741.9	1891.2	2327.6	3189.0	4923.2	8728.5	11787.3	14647.1	15764.9	11737.6
62.5°	1389.7	1412.6	1512.2	1730.4	2120.9	2832.9	4456.1	5746.3	7469.0	8475.8	6676.5
65°	1179.1	1190.6	1297.8	1443.3	1692.1	1994.5	2293.1	2400.3	2905.7	2982.2	2373.5
67.5°	983.9	995.4	1110.2	1248.0	1408.8	1489.2	1565.8	1558.1	1615.5	1592.6	1588.7
70°	758.0	769.5	888.2	1033.6	1114.0	1068.1	1305.4	1359.0	1382.0	1401.2	1431.8
72.5°	547.4	570.4	662.3	765.7	723.5	830.7	1075.8	1156.1	1186.8	1198.3	1236.5
75°	398.1	405.8	428.8	398.1	459.4	578.1	758.0	857.5	895.8	907.3	964.7
77.5°	176.1	179.9	183.8	229.7	294.8	359.9	451.7	532.1	585.7	601.0	616.4
80°	91.9	95.7	118.7	157.0	210.6	264.2	329.2	375.2	409.6	413.5	428.8
82.5°	57.4	61.3	84.2	111.0	149.3	195.2	241.2	279.5	306.3	310.1	313.9
85°	26.8	34.5	49.8	68.9	99.5	126.3	130.2	111.0	118.7	122.5	114.8
87.5°	7.7	11.5	15.3	11.5	15.3	15.3	19.1	23.0	23.0	23.0	26.8
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°	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8	4306.8
2.5°	4375.7	4341.3	4207.3	4157.5	4027.4	4050.3	3981.4	3977.6	3962.3	3958.5	3954.6
5°	4482.9	4375.7	4215.0	4092.4	4019.7	4012.1	3962.3	3962.3	3977.6	3989.1	3962.3
7.5°	4659.0	4536.5	4264.7	4149.9	4084.8	4073.3	4038.9	4012.1	4046.5	4035.0	4004.4
10°	4861.9	4647.6	4360.4	4260.9	4153.7	4126.9	4126.9	4138.4	4081.0	4100.1	4069.5
12.5°	5087.8	4800.7	4482.9	4368.1	4241.8	4226.4	4218.8	4134.6	4165.2	4149.9	4073.3
15°	5374.9	4976.8	4639.9	4444.7	4337.5	4268.6	4169.0	4153.7	4134.6	4096.3	4061.8
17.5°	5685.0	5168.2	4712.6	4467.6	4306.8	4257.1	4180.5	4100.1	4042.7	4050.3	4023.5
20°	5949.2	5344.3	4739.4	4490.6	4283.9	4188.2	4069.5	4019.7	3958.5	3954.6	3950.8
22.5°	6263.1	5581.7	4777.7	4429.3	4215.0	4115.4	4035.0	3947.0	3904.9	3851.3	3878.1
25°	6638.3	5673.5	4785.4	4394.9	4165.2	3989.1	3947.0	3851.3	3836.0	3759.4	3774.7
27.5°	6910.1	5723.3	4724.1	4287.7	4050.3	3916.3	3839.8	3770.9	3744.1	3686.6	3671.3
30°	7273.8	5799.9	4594.0	4153.7	3935.5	3786.2	3740.2	3724.9	3648.4	3587.1	3579.5
32.5°	7687.2	5849.6	4509.7	4015.9	3816.8	3702.0	3724.9	3652.2	3556.5	3502.9	3487.6
35°	8016.5	5868.8	4299.2	3858.9	3736.4	3663.7	3636.9	3621.6	3483.7	3434.0	3395.7
37.5°	8518.0	5826.7	4123.1	3747.9	3648.4	3621.6	3598.6	3495.2	3338.3	3265.5	3211.9
40°	9103.7	5815.2	3897.2	3590.9	3564.1	3594.8	3525.9	3365.1	3146.9	3066.5	3028.2
42.5°	9666.4	5895.6	3755.6	3506.7	3472.3	3483.7	3388.0	3146.9	3039.7	2993.7	2932.5
45°	10608.2	6064.0	3522.0	3376.6	3361.2	3353.6	3238.7	2986.1	2924.8	2867.4	2855.9
47.5°	11458.1	5953.0	3372.7	3242.6	3257.9	3215.8	2970.8	2890.4	2821.5	2764.0	2744.9
50°	11507.9	5688.8	3162.2	3139.2	3143.0	3070.3	2836.8	2783.2	2695.1	2656.8	2630.0
52.5°	11247.5	5256.3	2966.9	2974.6	2986.1	2867.4	2672.2	2633.9	2561.1	2507.5	2492.2
55°	10516.3	4582.5	2775.5	2806.1	2836.8	2610.9	2549.6	2453.9	2396.5	2319.9	2323.8
57.5°	9264.5	3690.5	2507.5	2557.3	2622.4	2373.5	2327.6	2208.9	2124.7	2063.5	2055.8
60°	6209.5	2626.2	2105.6	2124.7	2270.2	2170.6	2166.8	2048.1	1933.3	1879.7	1849.1
62.5°	3663.7	2006.0	1818.4	1799.3	1795.5	1852.9	1948.6	1906.5	1757.2	1653.8	1684.5
65°	1918.0	1734.2	1692.1	1627.0	1588.7	1573.4	1646.2	1665.3	1565.8	1454.8	1447.1
67.5°	1611.7	1611.7	1577.3	1554.3	1500.7	1435.6	1389.7	1328.4	1313.1	1282.5	1244.2
70°	1466.2	1504.5	1493.0	1439.4	1393.5	1320.8	1202.1	1102.5	1006.8	972.4	995.4
72.5°	1278.7	1316.9	1316.9	1290.1	1228.9	1117.9	1003.0	888.2	807.8	746.5	738.9
75°	983.9	1003.0	1049.0	1018.3	937.9	869.0	750.3	631.7	555.1	497.7	486.2
77.5°	627.8	658.5	658.5	654.6	597.2	532.1	455.6	371.3	313.9	271.8	260.3
80°	417.3	436.4	451.7	436.4	398.1	348.4	291.0	233.5	191.4	157.0	149.3
82.5°	306.3	329.2	340.7	325.4	287.1	248.8	206.7	164.6	122.5	95.7	88.1
85°	118.7	122.5	137.8	164.6	160.8	157.0	126.3	91.9	68.9	49.8	45.9
87.5°	30.6	26.8	30.6	30.6	26.8	23.0	23.0	23.0	23.0	11.5	15.3
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)