

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: P648099

Luminaire Tested: **GALN-SA8A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24461.7 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

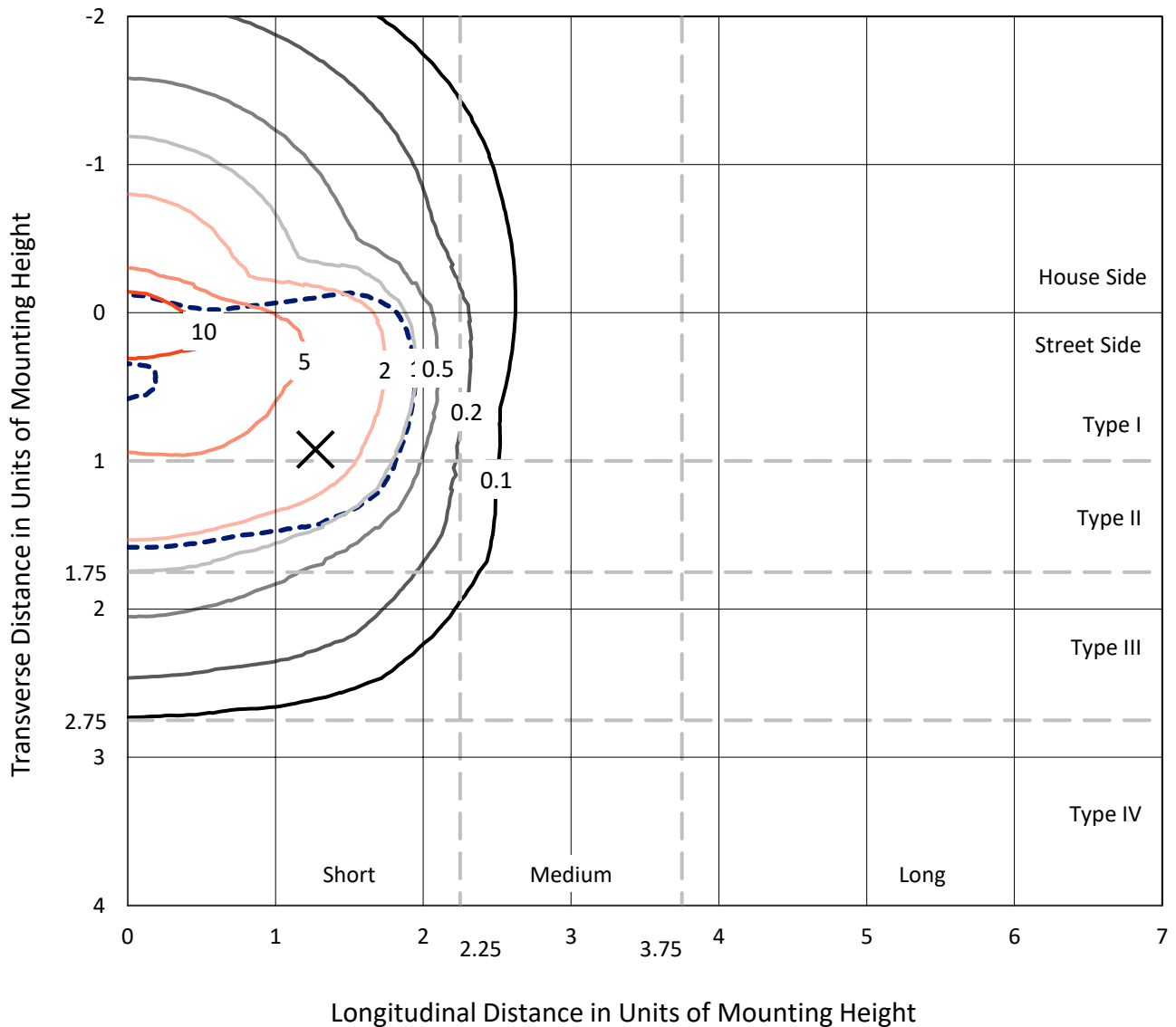
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

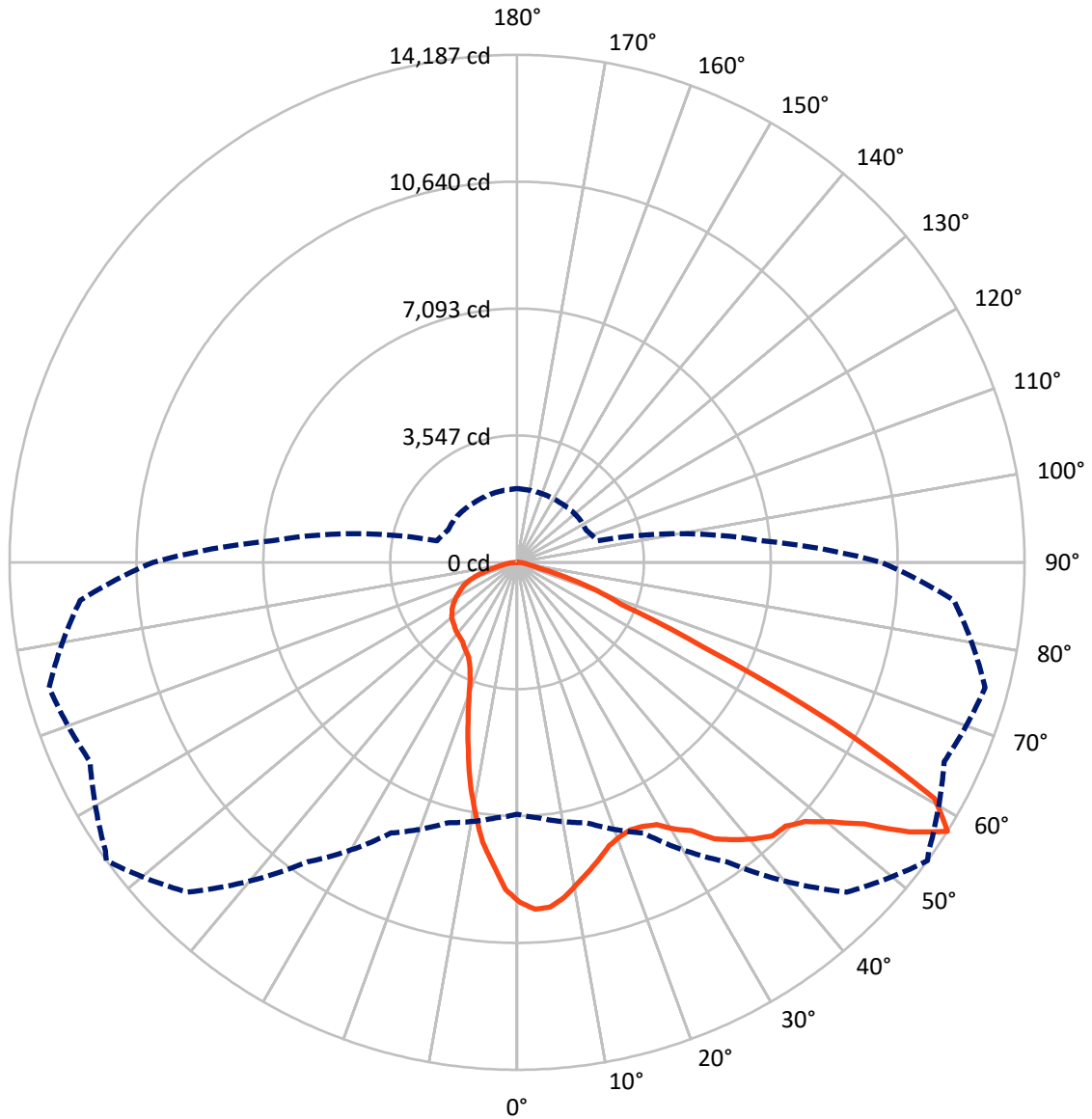
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6767.5	0.0	6767.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17694.2	0.0	17694.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	24461.7	0.0	24461.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.0	3.4
10°-20°	1898.5	7.8
20°-30°	2667.5	10.9
30°-40°	3729.1	15.2
40°-50°	5048.5	20.6
50°-60°	6149.3	25.1
60°-70°	3202.8	13.1
70°-80°	820.7	3.4
80°-90°	125.2	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°	24461.7	100.0
0°-180°	24461.7	100.0

Coefficient of Utilization



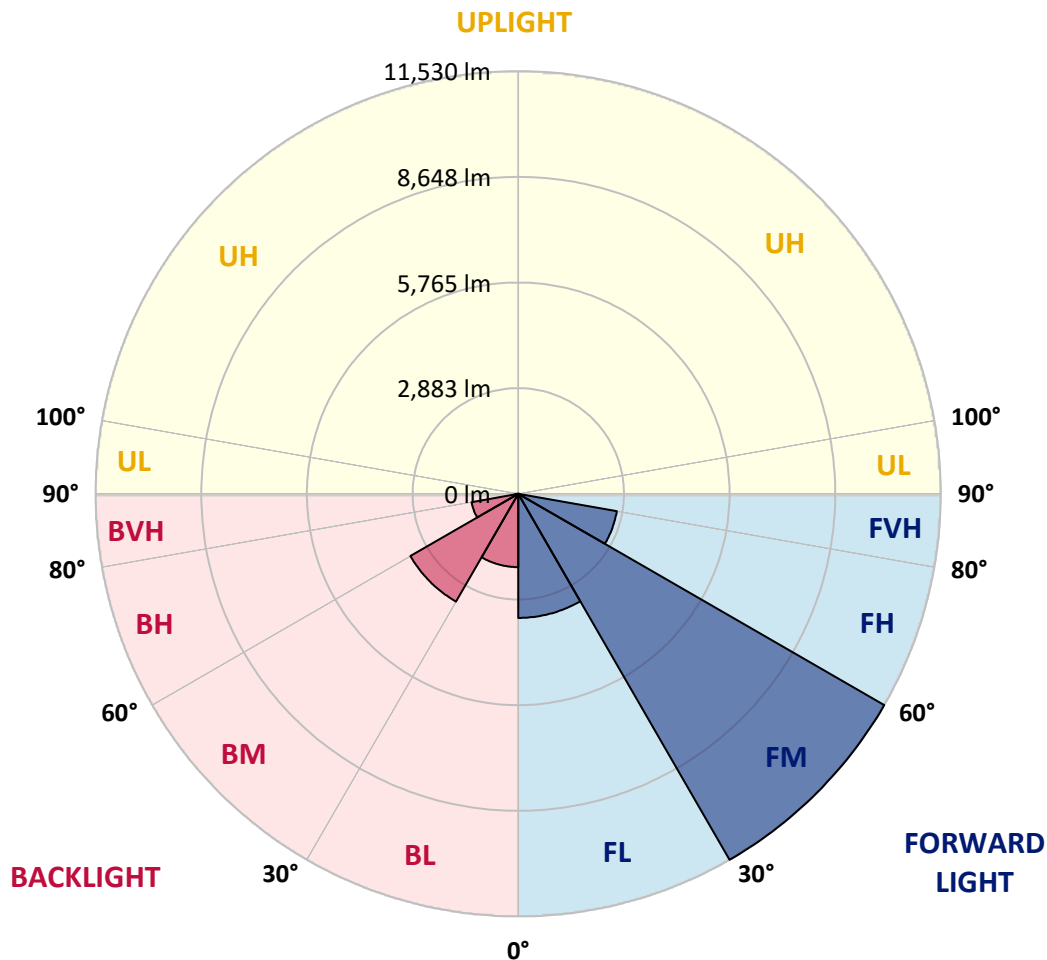
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3385.8	13.8			
FM (30°-60°)	11530.5	47.1			
FH (60°-80°)	2730.6	11.2			G2/5000
FVH (80°-90°)	47.3	0.2			G1/100
BL (0°-30°)	2000.1	8.2	B3/2500		
BM (30°-60°)	3396.5	13.9	B3/5000		
BH (60°-80°)	1292.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	77.9	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°	54°	55°	65°	75°	85°
0°	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0
2.5°	9778.4	9740.7	9746.9	9797.2	9734.3	9709.2	9709.2	9586.6	9596.1	9511.1	9489.1
5°	9552.0	9464.0	9523.7	9599.2	9611.7	9636.9	9677.8	9646.3	9558.3	9467.1	9319.3
7.5°	8960.9	9039.5	9061.5	9115.0	9228.1	9331.9	9460.8	9372.8	9369.6	9278.5	9190.4
10°	8442.1	8394.9	8514.4	8593.0	8781.7	8954.6	9152.7	9143.2	9190.4	9086.6	8935.8
12.5°	7926.5	7888.7	7945.3	8124.6	8388.7	8640.2	8876.0	8788.0	9039.5	9020.6	8696.8
15°	7379.4	7407.6	7489.4	7656.1	8001.9	8303.8	8602.4	8605.6	8828.9	8904.3	8470.4
17.5°	6995.8	6964.3	7068.1	7316.5	7624.6	7986.2	8325.8	8394.9	8737.7	8781.7	8401.2
20°	6709.7	6753.7	6888.9	7014.7	7369.9	7807.0	8190.6	8215.7	8718.8	8838.3	8291.2
22.5°	6640.5	6615.3	6659.3	6863.7	7156.2	7630.9	8118.2	8212.6	8715.7	8819.4	8083.7
25°	6568.2	6649.9	6646.8	6851.2	7064.9	7489.4	8178.0	8281.8	8882.3	8916.9	8112.0
27.5°	6731.7	6722.2	6810.3	6826.0	7090.1	7527.1	8303.8	8382.4	9159.0	9130.7	8134.0
30°	6895.2	6848.0	6901.4	7086.9	7209.6	7744.1	8649.6	8643.3	9517.4	9498.6	8203.2
32.5°	7096.4	7074.4	7109.0	7272.5	7480.0	8033.3	8942.0	9127.5	9882.2	10001.7	8442.1
35°	7134.1	7225.3	7307.0	7527.1	7822.7	8501.8	9492.2	9646.3	10303.5	10677.6	8898.0
37.5°	7373.1	7407.6	7599.5	7989.3	8259.7	9127.5	9841.3	9938.7	10687.0	11111.5	9379.1
40°	7627.8	7668.6	7957.9	8366.7	8737.7	9536.3	10168.3	10199.7	10809.7	11444.8	9693.5
42.5°	7973.6	8011.3	8297.5	8810.0	9306.7	9885.3	10457.5	10492.1	10800.2	11828.4	10193.4
45°	8332.1	8423.3	8759.7	9341.3	9787.8	10294.0	10523.5	10665.0	10888.2	12171.1	10599.0
47.5°	8835.1	8920.0	9196.7	9765.8	10287.8	10652.5	10828.5	10966.9	11098.9	12469.8	10860.0
50°	9369.6	9385.4	9721.8	10237.4	10621.0	11058.1	11397.7	11444.8	11375.7	12815.7	11303.3
52.5°	9762.7	9812.9	10073.9	10577.0	11149.2	11686.9	12152.2	12202.5	12067.4	12944.6	11454.2
55°	9111.8	9083.5	9508.0	10177.7	11504.5	12623.8	13299.9	13337.6	12570.4	13343.9	11947.9
57.5°	7042.9	7178.2	7539.7	8347.8	10221.7	13038.9	14186.6	14051.3	13174.1	13545.1	12262.2
60°	5118.7	5087.3	5329.4	5870.2	7703.2	11237.3	13413.0	13551.4	12680.5	12208.8	10111.7
62.5°	4169.2	4125.2	4144.0	4162.9	4971.0	7458.0	9929.3	9926.2	9765.8	8775.4	6819.7
65°	3332.8	3436.6	3446.0	3587.5	3691.3	4455.3	5753.9	6062.0	5279.1	4329.5	3141.0
67.5°	2512.2	2474.4	2600.3	3103.3	3298.2	3216.5	3141.0	3175.6	2257.5	1628.7	1534.4
70°	1480.9	1465.1	1616.1	2163.2	2716.5	2556.2	2367.6	2370.7	1550.1	1138.2	1267.1
72.5°	811.2	808.1	839.5	1097.3	1543.8	1603.5	1421.1	1465.1	924.4	921.3	990.4
75°	452.7	443.3	433.9	484.2	556.6	588.0	600.6	606.8	635.1	710.6	738.9
77.5°	166.6	160.4	160.4	185.5	235.8	295.6	374.2	380.5	449.6	515.6	544.0
80°	56.6	62.9	84.9	116.4	157.2	210.6	254.7	261.0	317.6	361.6	371.0
82.5°	34.6	37.7	56.6	81.7	113.2	147.8	188.6	191.8	235.8	264.1	276.7
85°	15.7	18.9	31.5	50.3	72.3	97.5	100.6	100.6	97.5	100.6	94.4
87.5°	0.0	0.0	6.3	6.3	6.3	9.4	12.6	9.4	15.7	18.9	18.9
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°	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0	9508.0
2.5°	9423.1	9388.5	9281.6	9187.3	9159.0	9033.2	8847.7	8869.7	8734.5	8797.4	8731.4
5°	9294.2	9177.9	8904.3	8788.0	8483.0	8344.7	8250.3	8014.5	7904.5	7882.5	7788.1
7.5°	8964.0	8891.7	8549.0	8234.6	7910.7	7634.1	7278.8	7036.7	6863.7	6816.6	6678.2
10°	8703.0	8542.7	8068.0	7590.0	7127.8	6646.8	6184.6	5823.0	5646.9	5442.6	5373.4
12.5°	8445.3	8203.2	7561.7	6948.7	6351.2	5744.4	5184.7	4744.6	4361.0	4269.8	4238.4
15°	8284.9	7863.6	7109.0	6370.1	5521.2	4728.9	4169.2	3879.9	3644.1	3546.6	3615.8
17.5°	8074.2	7583.7	6675.1	5690.9	4757.1	4027.7	3559.2	3380.0	3295.1	3304.5	3276.2
20°	7810.1	7319.6	6106.0	5074.7	4074.9	3493.2	3226.0	3159.9	3172.5	3194.5	3185.1
22.5°	7621.5	6998.9	5694.1	4445.9	3521.5	3197.6	3087.6	3040.4	3081.3	3100.1	3084.5
25°	7476.9	6725.4	5194.2	3889.3	3200.7	3031.0	2980.6	2977.5	3040.4	3065.6	3049.9
27.5°	7344.8	6470.7	4697.4	3464.9	2987.0	2902.1	2886.4	2924.1	2965.0	2990.1	3012.1
30°	7266.2	6275.7	4232.0	3109.6	2880.0	2839.2	2810.9	2845.5	2867.5	2892.6	2880.0
32.5°	7341.6	6137.5	3782.4	2908.4	2792.0	2751.1	2788.9	2766.9	2804.6	2826.6	2792.0
35°	7577.5	6014.8	3461.7	2801.5	2691.4	2707.1	2713.4	2704.0	2719.7	2700.9	2741.8
37.5°	7810.1	5970.8	3166.2	2710.3	2644.3	2644.3	2637.9	2619.1	2650.5	2644.3	2663.1
40°	8105.7	5999.1	2914.6	2612.8	2600.3	2593.9	2568.8	2565.7	2553.0	2556.2	2562.5
42.5°	8363.5	6062.0	2770.0	2549.9	2559.4	2571.9	2524.8	2487.0	2502.8	2471.3	2471.3
45°	8637.0	6118.6	2641.1	2505.9	2496.4	2493.3	2455.6	2433.6	2421.0	2424.2	2452.4
47.5°	9067.8	6200.3	2543.7	2446.2	2452.4	2405.3	2395.8	2367.6	2380.2	2399.0	2402.2
50°	9372.8	6373.2	2468.2	2377.0	2399.0	2367.6	2310.9	2298.4	2298.4	2329.8	2323.6
52.5°	9586.6	6615.3	2395.8	2301.6	2310.9	2285.8	2266.9	2238.7	2219.8	2263.8	2285.8
55°	10240.5	7017.8	2377.0	2238.7	2235.5	2210.3	2175.8	2147.5	2138.1	2144.3	2188.3
57.5°	10177.7	6892.0	2317.3	2128.6	2122.3	2087.7	2053.2	2043.7	2040.6	2046.8	2059.4
60°	8262.9	5090.4	2068.8	2002.8	1993.4	1987.1	1952.6	1914.8	1896.0	1914.8	1899.1
62.5°	5467.7	3408.3	1823.6	1852.0	1858.2	1842.5	1785.9	1748.1	1754.5	1776.5	1741.9
65°	2685.1	2002.8	1653.9	1729.3	1735.6	1691.6	1638.1	1594.1	1572.1	1591.0	1575.2
67.5°	1534.4	1531.2	1515.5	1594.1	1591.0	1546.9	1462.0	1424.3	1386.6	1392.9	1383.4
70°	1301.7	1326.9	1358.3	1405.5	1402.3	1352.0	1251.4	1223.0	1169.6	1163.4	1147.6
72.5°	1025.0	1069.0	1138.2	1172.8	1144.5	1081.6	1015.6	968.4	921.3	892.9	902.4
75°	760.9	823.8	861.5	883.5	839.5	804.9	751.4	694.8	638.3	613.1	603.7
77.5°	553.3	572.2	606.8	622.6	594.2	559.7	528.2	471.6	418.2	383.6	374.2
80°	386.7	399.3	424.5	424.5	424.5	408.7	367.9	311.2	276.7	245.2	239.0
82.5°	270.4	283.0	308.1	295.6	292.4	273.6	248.4	204.4	166.6	144.6	138.4
85°	94.4	103.7	125.7	150.9	160.4	157.2	141.5	113.2	88.0	72.3	66.0
87.5°	22.0	22.0	25.1	22.0	22.0	25.1	22.0	22.0	22.0	15.7	12.6
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)