

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: P651039

Luminaire Tested: **GALN-SA7C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25045.8 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

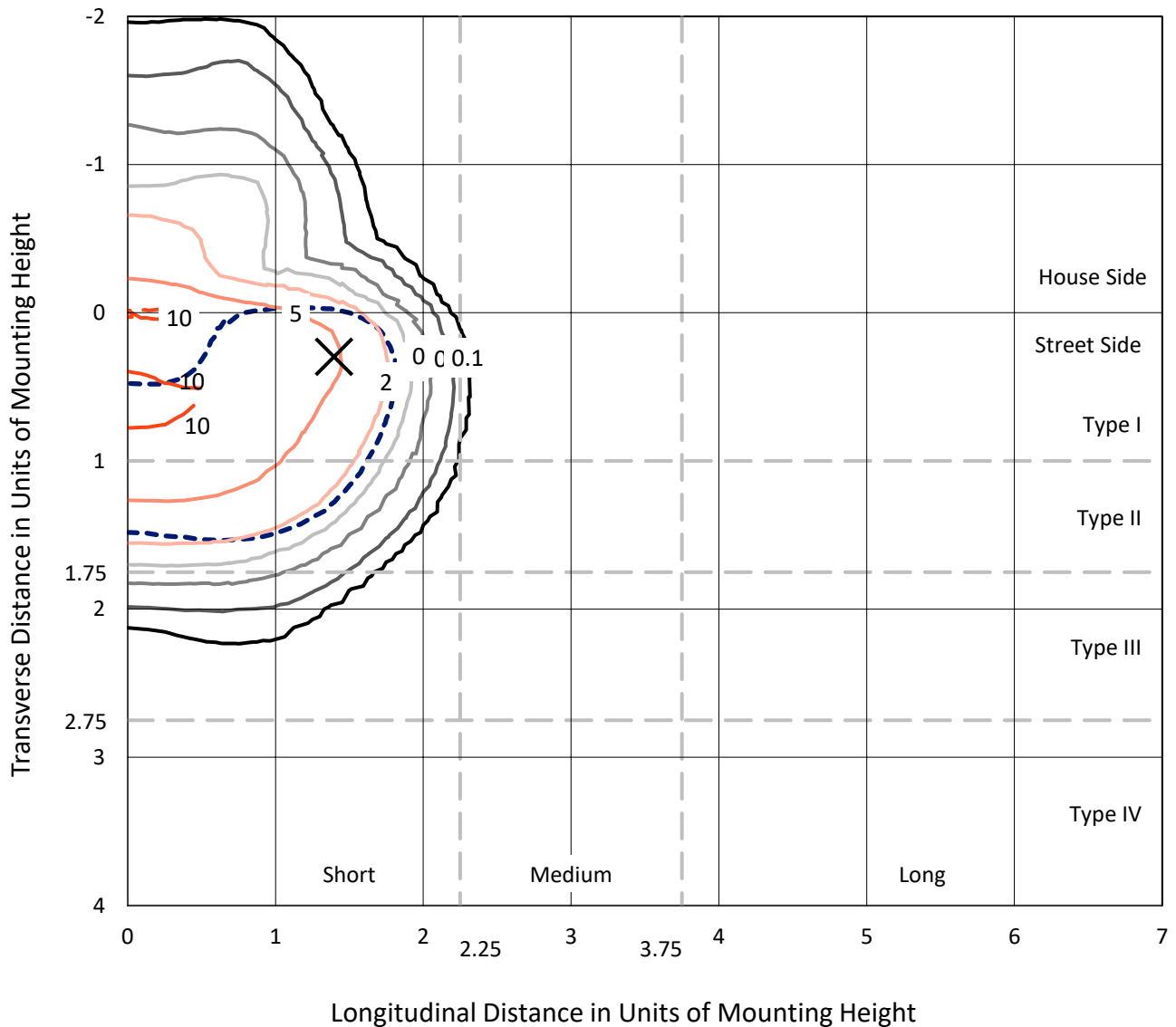
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

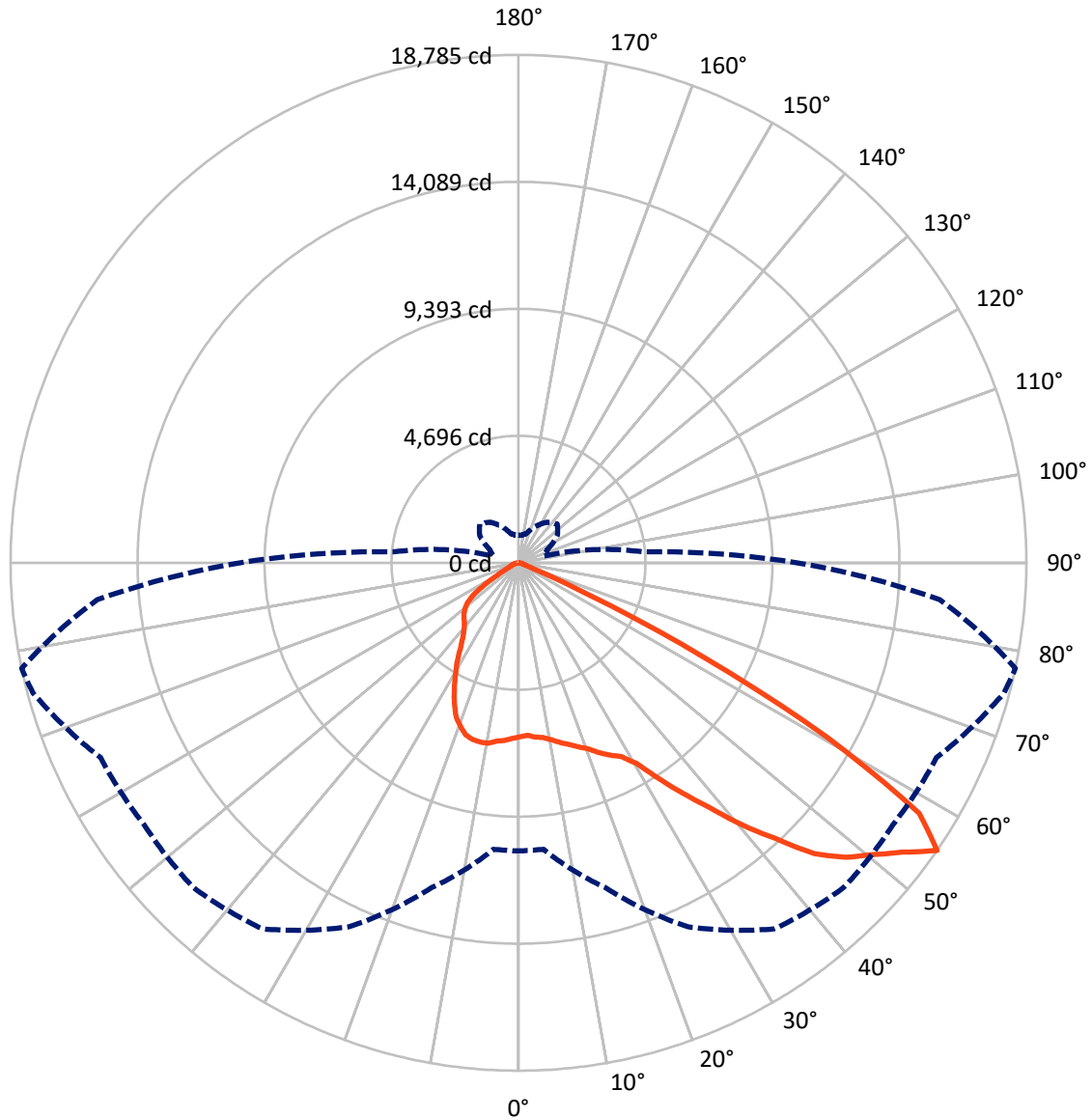
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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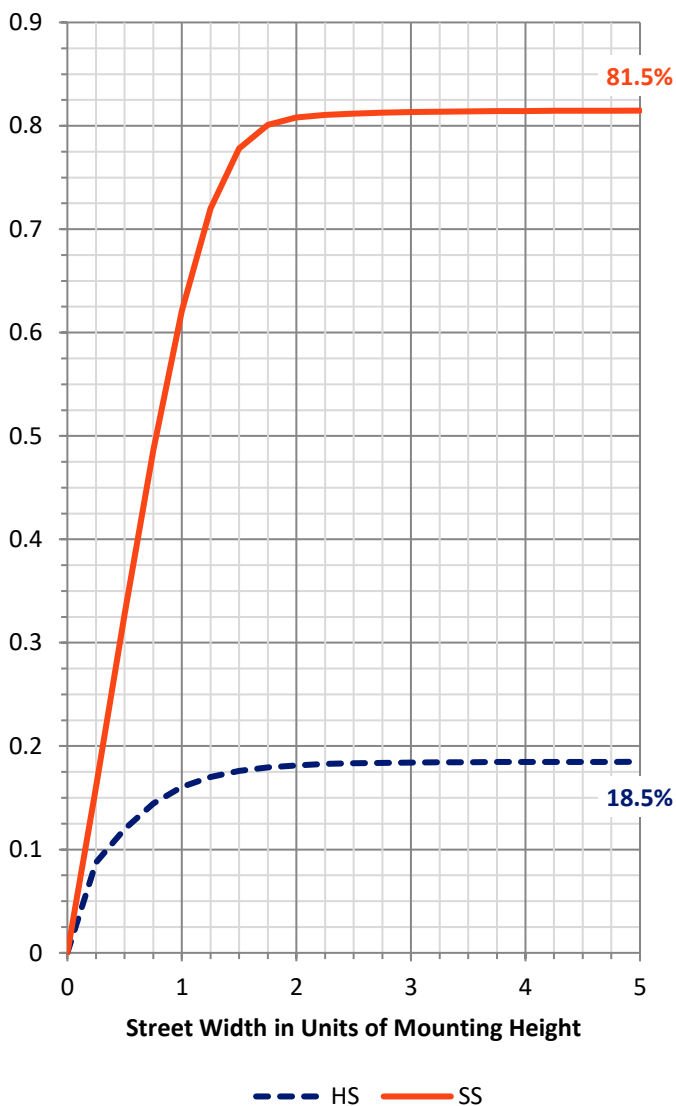
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4652.0	0.0	4652.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20393.8	0.0	20393.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	25045.8	0.0	25045.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	2.3
10°-20°	1519.6	6.1
20°-30°	2663.6	10.6
30°-40°	4391.9	17.5
40°-50°	6390.7	25.5
50°-60°	7241.3	28.9
60°-70°	2070.4	8.3
70°-80°	160.8	0.6
80°-90°	33.4	0.1
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°	25045.8	100.0
0°-180°	25045.8	100.0

Coefficient of Utilization



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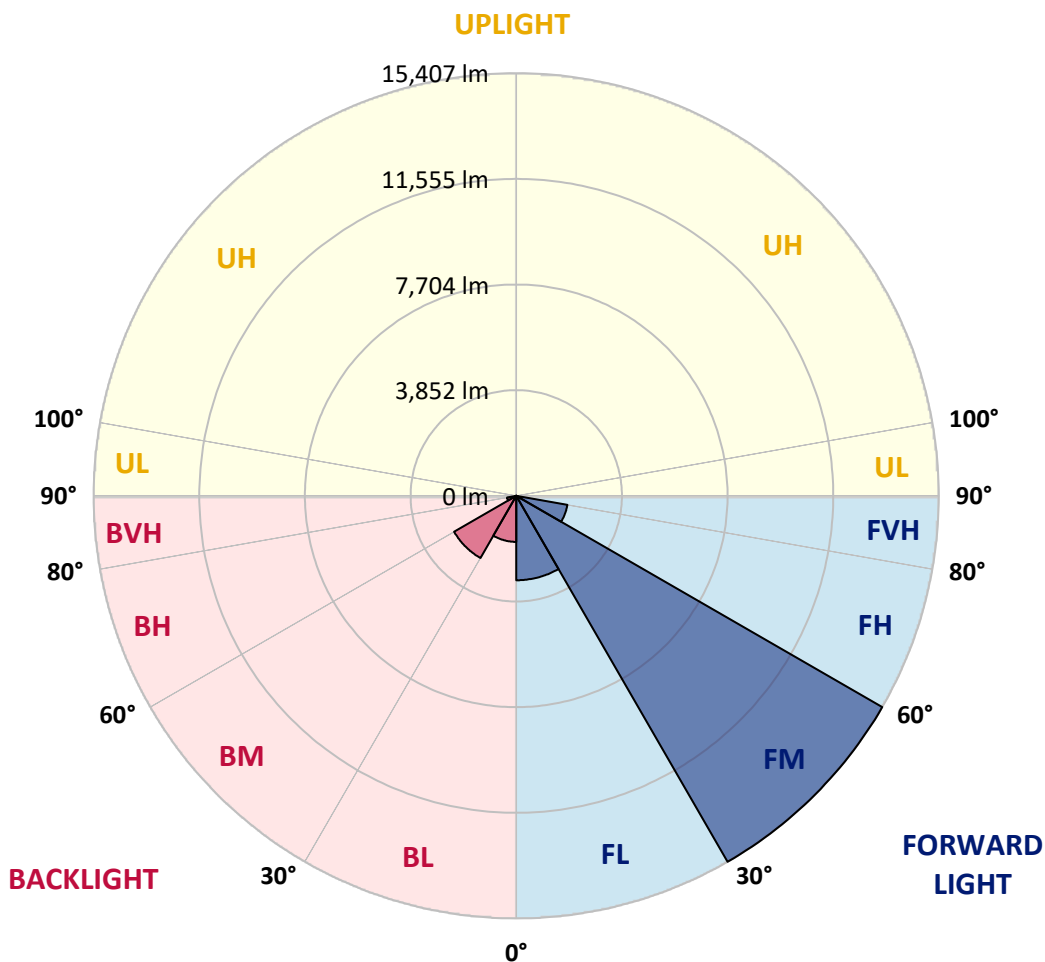
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.9	12.3			
FM (30°-60°)	15407.1	61.5			
FH (60°-80°)	1891.6	7.6			G2/5000
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1678.5	6.7	B3/2500		
BM (30°-60°)	2616.8	10.4	B3/5000		
BH (60°-80°)	339.6	1.4	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3
2.5°	6054.2	6112.4	6121.4	6193.0	6188.5	6309.4	6345.3	6349.7	6430.4	6390.0	6493.0
5°	5884.1	5852.7	5839.2	5964.6	6000.5	6107.9	6197.5	6251.2	6416.9	6475.1	6582.6
7.5°	5731.8	5731.8	5740.8	5852.7	5839.2	5978.1	6072.1	6237.8	6479.6	6528.9	6658.7
10°	5584.0	5530.2	5597.4	5713.8	5812.4	5875.1	6072.1	6228.9	6510.9	6654.2	6833.4
12.5°	5507.9	5534.8	5543.7	5628.8	5736.3	5924.3	6031.8	6291.5	6734.8	6819.9	7012.5
15°	5987.0	5933.3	5803.4	5727.3	5816.9	5906.4	6175.1	6439.3	6851.3	6972.1	7187.1
17.5°	6542.3	6497.5	6390.0	6184.0	5982.5	6148.2	6358.7	6600.5	6976.7	7155.7	7473.7
20°	7267.8	7196.1	7088.6	6685.6	6510.9	6331.8	6555.8	6842.3	7182.6	7343.9	7670.8
22.5°	8132.0	8132.0	7890.2	7402.1	7039.3	6869.2	6963.2	7128.9	7411.0	7630.4	7952.8
25°	9032.0	9005.2	8785.8	8279.7	7666.2	7464.7	7572.2	7688.7	7764.8	7885.6	8100.6
27.5°	10062.0	9905.2	9627.6	9067.8	8526.1	8136.4	8252.9	8149.9	8055.9	8118.5	8427.5
30°	10760.5	10859.1	10505.3	9968.0	9457.5	9023.1	9045.5	8955.9	8526.1	8615.5	8799.2
32.5°	11486.0	11548.6	11351.6	11056.0	10545.6	10039.6	9855.9	9779.8	9457.5	9497.7	9318.6
35°	12090.5	12211.4	12036.7	11906.9	11759.1	11351.6	10845.6	11091.9	10572.5	10473.9	10008.2
37.5°	12645.7	12610.0	12815.9	12681.5	12650.2	12363.6	11808.4	11857.6	11508.3	11486.0	10948.6
40°	13142.8	13151.7	13433.9	13496.5	13371.1	12860.7	12054.6	12444.2	12726.3	12753.2	12063.6
42.5°	13554.7	13675.7	13917.5	14423.5	14235.4	13384.6	12309.9	12735.3	13783.1	13948.8	13120.4
45°	13913.0	14159.2	14459.3	14911.6	14804.1	14128.0	12945.8	13335.3	14911.6	15346.0	14114.5
47.5°	13935.4	14257.8	14584.7	15256.4	15390.7	14526.5	13604.0	14284.6	15807.2	16277.4	14839.9
50°	13845.8	14016.0	14669.7	15399.7	15704.2	15175.8	14526.5	15081.7	16675.9	16971.5	15207.1
52.5°	12784.5	12914.4	14226.4	15534.0	16268.4	15910.2	15749.0	16192.3	17562.5	17781.9	15551.9
55°	10657.5	10635.1	12439.7	14857.9	16528.1	16998.3	16899.8	17056.5	18588.0	18785.0	15637.0
57.5°	7290.1	7697.6	9256.0	12372.6	14938.4	16743.0	16846.1	16586.4	17392.4	17468.5	13630.9
60°	3931.7	4101.8	5355.7	8257.4	11374.0	13644.3	13913.0	13442.8	13380.1	13165.2	9730.6
62.5°	1562.8	1647.9	2359.8	4088.4	6197.5	8293.2	8870.8	8678.3	8266.3	7702.0	5037.7
65°	743.4	797.1	1173.2	1912.1	2749.5	3457.0	4034.6	4213.7	3107.7	2798.7	1661.3
67.5°	506.0	546.3	855.3	1092.6	980.7	1025.4	1334.4	1240.4	729.9	622.4	461.2
70°	385.1	412.0	685.2	743.4	438.8	309.0	344.8	322.4	300.0	304.5	300.0
72.5°	273.2	295.5	501.6	438.8	192.6	143.3	183.6	219.4	219.4	219.4	215.0
75°	165.7	188.0	291.1	170.1	76.1	76.1	116.4	147.8	156.8	161.2	152.2
77.5°	85.1	107.5	98.5	49.3	49.3	58.2	85.1	103.0	111.9	111.9	107.5
80°	17.9	17.9	17.9	26.8	49.3	62.7	85.1	94.0	107.5	107.5	98.5
82.5°	0.0	4.5	13.5	26.8	44.7	58.2	80.6	94.0	107.5	111.9	103.0
85°	0.0	4.5	8.9	17.9	31.4	35.8	31.4	26.8	26.8	26.8	26.8
87.5°	0.0	0.0	4.5	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3	6439.3
2.5°	6502.0	6515.4	6493.0	6488.6	6470.7	6524.4	6394.5	6363.2	6443.7	6367.6	6385.5
5°	6587.0	6618.4	6578.1	6510.9	6412.5	6260.2	6130.3	5960.2	5879.5	5821.3	5812.4
7.5°	6649.8	6672.2	6631.9	6416.9	6121.4	5736.3	5449.7	5239.2	5073.5	5024.3	4943.7
10°	6905.0	6909.5	6708.0	6233.3	5655.6	5149.6	4710.8	4388.4	4222.7	4119.7	4074.9
12.5°	7075.2	7066.3	6658.7	5870.6	5100.4	4428.7	3927.1	3537.6	3385.4	3336.1	3304.7
15°	7290.1	7240.8	6542.3	5499.0	4383.9	3658.5	3206.2	2937.5	2924.1	2892.8	2924.1
17.5°	7460.3	7321.5	6372.1	4822.7	3698.8	3013.6	2718.1	2736.0	2771.9	2803.2	2807.7
20°	7737.9	7451.3	5982.5	4231.7	3062.9	2583.8	2579.3	2659.9	2749.5	2785.3	2821.1
22.5°	7948.4	7505.1	5566.1	3600.2	2543.4	2409.1	2485.2	2606.2	2673.4	2709.2	2762.9
25°	8024.5	7357.2	5010.8	2968.9	2292.7	2328.6	2445.0	2525.6	2610.6	2650.9	2628.5
27.5°	8100.6	7281.1	4348.1	2445.0	2158.3	2274.8	2373.3	2454.0	2480.8	2534.5	2570.3
30°	8284.2	7017.0	3752.5	2113.6	2091.2	2239.0	2310.6	2337.5	2409.1	2440.5	2440.5
32.5°	8432.0	6913.9	3121.1	1956.8	2082.2	2256.9	2265.8	2265.8	2274.8	2252.5	2243.5
35°	8736.5	6560.2	2556.9	1862.8	2077.8	2261.4	2283.7	2207.6	2001.7	1921.0	1898.6
37.5°	9112.7	6331.8	2140.4	1840.4	2109.1	2315.1	2350.9	2064.3	1795.6	1665.8	1643.4
40°	9569.4	6170.6	1867.3	1831.4	2180.8	2440.5	2333.0	1952.4	1603.1	1415.1	1406.1
42.5°	10102.3	6022.8	1683.7	1827.0	2270.4	2570.3	2315.1	1858.4	1406.1	1280.7	1298.6
45°	10527.6	5942.3	1558.3	1795.6	2301.6	2646.5	2328.6	1692.7	1325.5	1244.8	1253.8
47.5°	10859.1	5772.1	1455.4	1742.0	2297.2	2673.4	2207.6	1625.5	1285.1	1307.6	1330.0
50°	10868.0	5543.7	1325.5	1625.5	2230.0	2624.1	2068.8	1562.8	1276.2	1370.2	1415.1
52.5°	10747.1	5221.3	1186.7	1459.8	2073.3	2454.0	1943.5	1535.9	1235.9	1226.9	1280.7
55°	10317.2	4616.8	953.8	1182.2	1750.9	2024.0	1831.4	1486.7	1115.0	1012.0	1021.0
57.5°	8337.9	3309.2	703.1	846.3	1240.4	1482.2	1652.4	1464.3	1003.1	859.8	864.2
60°	5163.1	1876.3	514.9	577.7	765.7	900.0	1338.9	1361.3	895.6	725.4	716.4
62.5°	2650.9	927.0	398.5	407.5	470.2	528.4	918.0	1141.9	810.5	689.6	689.6
65°	886.7	456.7	349.3	313.4	313.4	326.9	555.2	792.6	685.2	577.7	577.7
67.5°	380.6	340.4	304.5	273.2	250.8	237.3	313.4	461.2	510.5	438.8	420.9
70°	295.5	286.6	264.2	228.4	197.0	179.1	183.6	237.3	291.1	282.1	273.2
72.5°	219.4	219.4	210.5	179.1	152.2	129.9	120.9	125.4	138.8	143.3	147.8
75°	152.2	156.8	156.8	138.8	111.9	94.0	80.6	67.2	53.7	44.7	40.3
77.5°	103.0	107.5	116.4	103.0	85.1	62.7	49.3	35.8	22.4	8.9	8.9
80°	89.6	103.0	111.9	103.0	89.6	67.2	49.3	26.8	13.5	0.0	0.0
82.5°	94.0	103.0	116.4	98.5	85.1	62.7	49.3	31.4	13.5	4.5	0.0
85°	22.4	22.4	26.8	31.4	40.3	44.7	35.8	22.4	13.5	4.5	0.0
87.5°	8.9	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	0.0	0.0
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)