

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: P531221

Luminaire Tested: **GALN-SA6C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22161 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

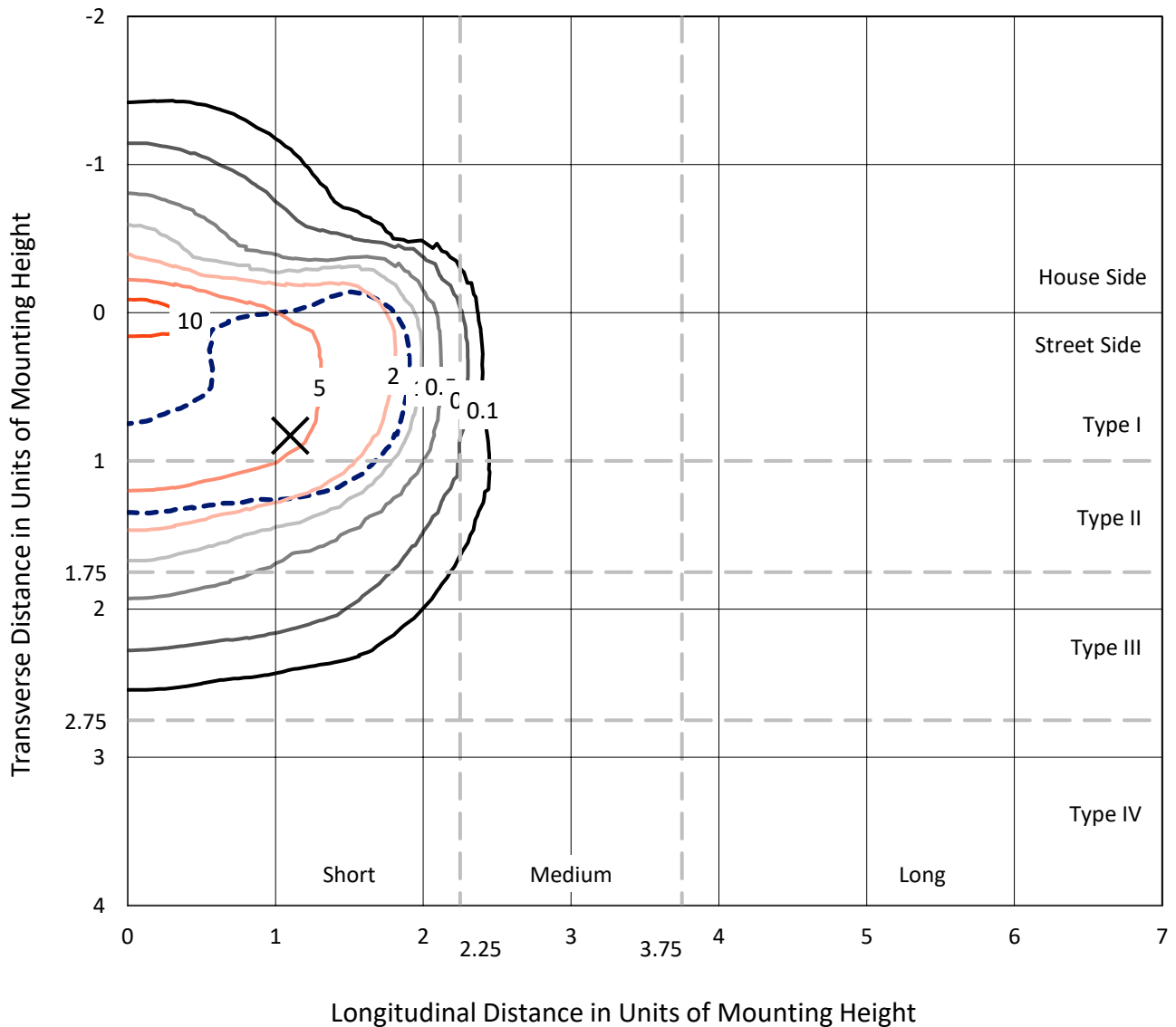
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

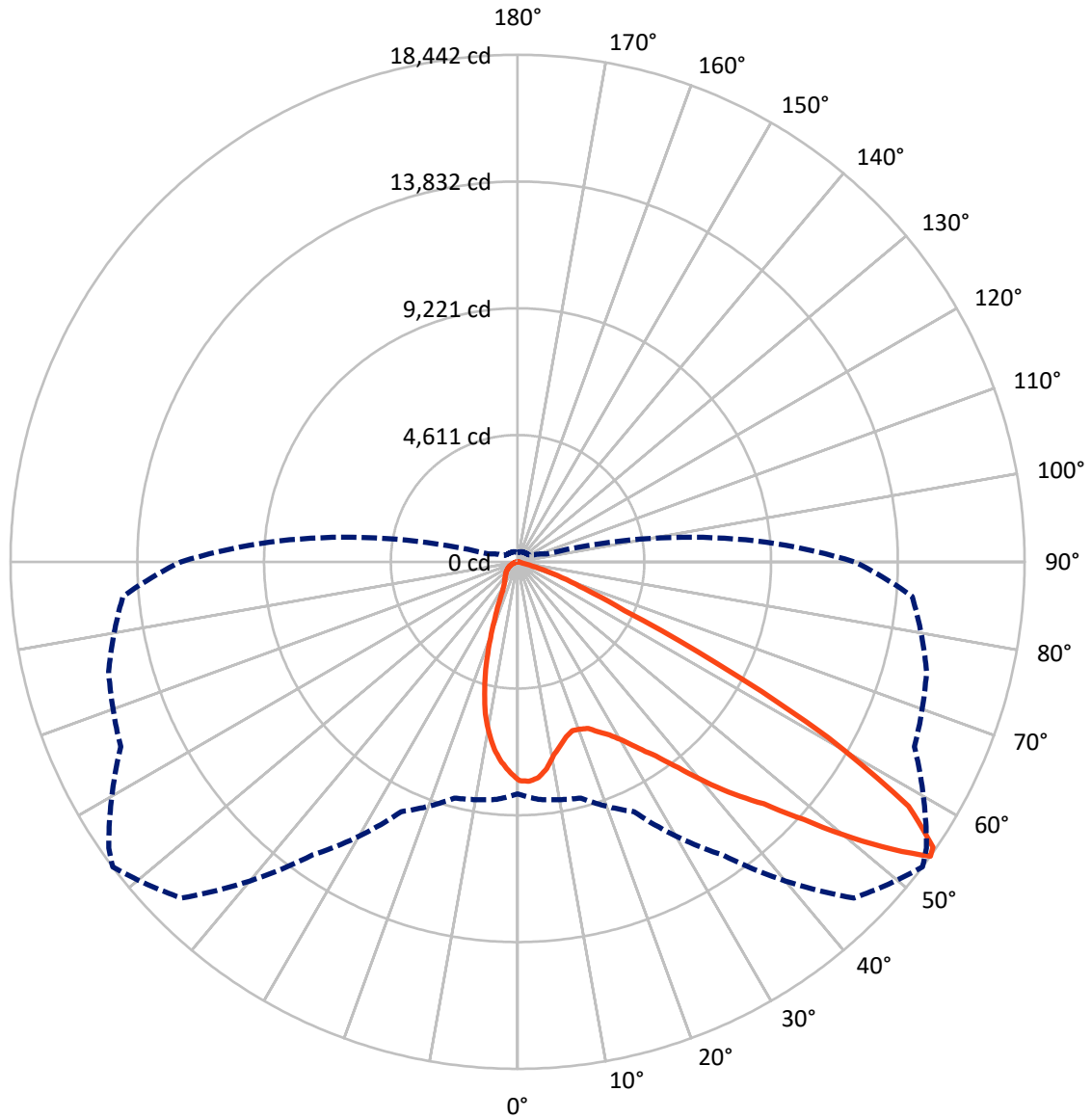
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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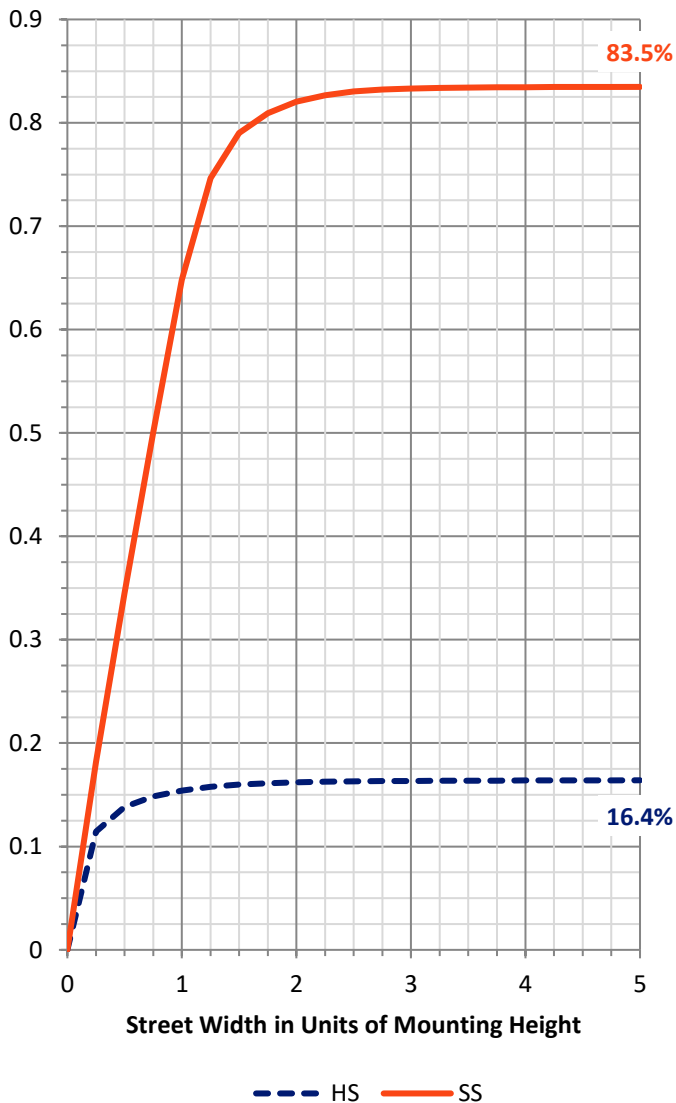
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.6	0.0	3666.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18494.4	0.0	18494.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	22161.0	0.0	22161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	3.1
10°-20°	1565.8	7.1
20°-30°	2225.3	10.0
30°-40°	3434.2	15.5
40°-50°	5384.5	24.3
50°-60°	6254.8	28.2
60°-70°	2363.5	10.7
70°-80°	224.7	1.0
80°-90°	25.3	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°	22161.0	100.0
0°-180°	22161.0	100.0



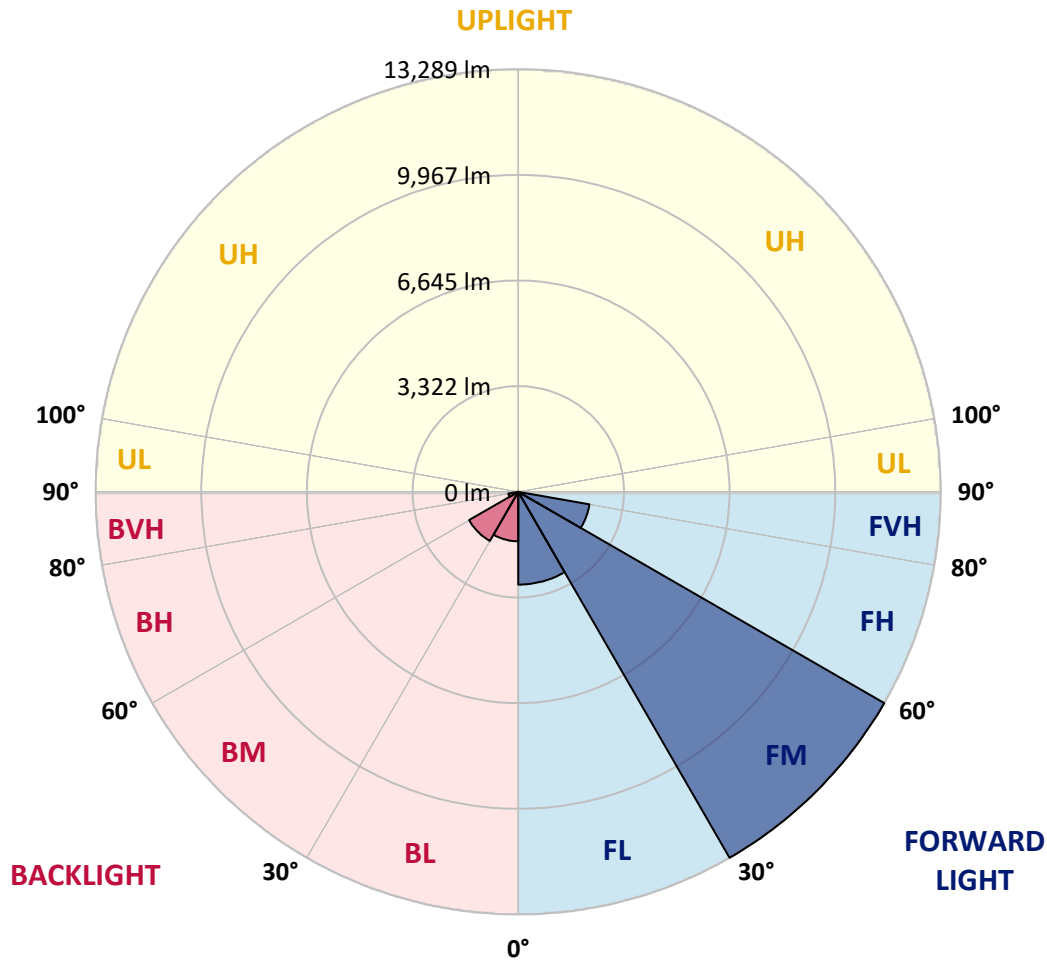
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2918.0	13.2			
FM (30°-60°)	13289.3	60.0			
FH (60°-80°)	2274.1	10.3			G2/5000
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1556.0	7.0	B3/2500		
BM (30°-60°)	1784.3	8.1	B2/2500		
BH (60°-80°)	314.1	1.4	B1/500		G1/500
BVH (80°-90°)	12.2	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°	53°	55°	65°	75°	85°
0°	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9
2.5°	7918.6	7848.4	7918.6	7926.8	7976.4	8021.8	7992.9	8058.9	8021.8	7980.5	7968.1
5°	7278.6	7373.6	7377.7	7526.4	7493.3	7765.8	7885.5	7852.5	8054.8	8042.4	8013.5
7.5°	6704.8	6667.6	6717.2	6890.6	7109.4	7423.1	7596.5	7592.4	7881.4	8087.8	8067.2
10°	6172.2	6168.1	6271.3	6407.5	6593.3	6923.6	7163.0	7282.8	7732.8	8046.6	8092.0
12.5°	5813.0	5796.5	5908.0	6019.4	6312.6	6568.5	6874.0	6931.8	7447.9	7902.1	7976.4
15°	5577.7	5614.8	5623.1	5837.8	6023.6	6362.1	6601.6	6721.3	7315.8	7786.5	8071.3
17.5°	5536.4	5585.9	5590.1	5767.6	5965.8	6250.6	6461.2	6622.2	7204.3	7844.3	8075.5
20°	5619.0	5590.1	5614.8	5726.3	5920.4	6192.8	6498.3	6552.0	7167.2	7873.2	8120.9
22.5°	5854.3	5846.0	5784.1	5874.9	6011.2	6296.0	6585.0	6667.6	7274.5	8021.8	8158.0
25°	6114.4	6159.8	6102.0	6089.6	6184.6	6465.3	6849.3	6956.6	7633.7	8290.1	8273.6
27.5°	6601.6	6556.1	6556.1	6498.3	6473.6	6609.8	7134.1	7311.7	8034.2	8636.9	8405.7
30°	7068.1	7117.6	7080.5	7101.1	6936.0	6923.6	7538.7	7757.6	8744.3	9165.4	8686.5
32.5°	7807.1	7741.0	7803.0	7749.3	7530.5	7307.5	8087.8	8314.9	9603.0	9772.3	9107.6
35°	8422.3	8393.4	8657.6	8649.3	8294.3	8075.5	8670.0	9008.5	10201.7	10498.9	9603.0
37.5°	9297.5	9243.8	9545.2	9689.7	9371.8	9045.7	9503.9	9896.2	10759.0	11081.0	10110.8
40°	10197.5	10333.8	10738.4	10977.8	10639.3	10205.8	10523.7	10643.4	11130.6	11460.9	10457.6
42.5°	11337.0	11535.2	11948.0	12154.5	12125.6	11654.9	11560.0	11555.8	11398.9	11353.5	10713.6
45°	12431.1	12356.8	12992.6	13442.6	13805.9	13669.7	12559.1	12435.2	11824.2	11514.5	10779.7
47.5°	12910.0	12885.2	13318.7	14119.7	15358.2	15527.5	14012.3	13533.4	12542.6	12191.6	11138.8
50°	12290.7	12418.7	12848.1	13735.7	15634.8	16927.1	15795.9	15151.8	13380.7	13017.3	11989.3
52.5°	10267.7	10354.4	10763.1	11890.2	14693.5	17752.8	17505.1	17133.5	14920.6	14317.8	13471.5
54°	8442.9	8674.1	8897.0	10028.3	13017.3	17294.5	18442.3	18157.4	15923.8	15399.5	14404.5
55°	7353.0	7489.2	7650.2	8777.3	11857.2	16518.4	18334.9	18359.7	16596.8	15738.1	15032.1
57.5°	5371.3	5466.2	5301.1	5800.6	8141.5	13413.7	16770.2	17439.0	17505.1	16245.9	15416.0
60°	4103.8	4145.1	3959.3	4037.7	5061.6	9206.7	12971.9	13777.0	15791.7	14198.1	13058.6
62.5°	3183.1	3191.4	3187.2	3323.5	3488.6	5416.7	8112.6	8826.9	10887.0	10081.9	8868.1
65°	2345.0	2307.9	2373.9	2786.8	2976.7	3406.1	4273.1	4793.3	5916.2	4995.6	3571.2
67.5°	1519.3	1531.7	1597.8	2072.5	2551.4	2613.4	2629.9	2588.6	2592.7	1428.5	895.9
70°	912.4	933.1	912.4	1172.5	1824.8	1874.4	1713.4	1672.1	1304.6	338.5	334.4
72.5°	540.8	511.9	458.3	503.7	759.7	908.3	817.5	813.3	511.9	198.2	198.2
75°	227.1	206.4	169.3	152.8	202.3	194.0	194.0	173.4	136.2	132.1	123.9
77.5°	45.4	45.4	33.0	37.2	49.5	57.8	70.2	70.2	82.6	82.6	78.4
80°	0.0	4.1	12.4	24.8	37.2	53.7	61.9	61.9	70.2	70.2	57.8
82.5°	0.0	4.1	12.4	24.8	33.0	49.5	61.9	61.9	70.2	74.3	61.9
85°	0.0	4.1	12.4	20.6	33.0	41.3	41.3	37.2	28.9	24.8	16.5
87.5°	0.0	0.0	4.1	8.3	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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°	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9	7959.9
2.5°	7997.0	7992.9	7893.8	7732.8	7695.6	7559.4	7542.9	7460.3	7505.7	7353.0	7336.4
5°	7931.0	7881.4	7761.7	7658.5	7357.1	7142.4	6973.1	6766.7	6647.0	6667.6	6589.2
7.5°	8025.9	7897.9	7687.4	7328.2	6960.7	6585.0	6382.7	5961.6	5808.9	5581.8	5548.8
10°	7926.8	7831.9	7505.7	6911.2	6403.4	5862.6	5387.8	4921.2	4566.2	4413.4	4380.4
12.5°	7918.6	7753.4	7208.5	6547.9	5813.0	5036.8	4347.4	3765.2	3414.3	3216.1	3170.7
15°	7790.6	7592.4	6874.0	5986.4	4970.8	4004.7	3253.3	2691.8	2423.5	2307.9	2340.9
17.5°	7803.0	7505.7	6539.6	5391.9	4140.9	2939.5	2221.2	1932.2	1862.0	1890.9	1890.9
20°	7790.6	7311.7	6135.0	4706.6	3170.7	2039.5	1630.8	1527.6	1573.0	1663.8	1643.2
22.5°	7724.5	7220.8	5763.5	3984.1	2332.6	1511.1	1308.8	1312.9	1383.1	1494.5	1519.3
25°	7774.1	7018.5	5292.8	3253.3	1701.0	1205.5	1135.4	1164.3	1238.6	1321.1	1337.7
27.5°	7736.9	6874.0	4801.5	2526.7	1242.7	1036.3	1032.1	1065.2	1098.2	1160.1	1160.1
30°	7778.2	6741.9	4318.5	1878.5	1023.9	949.6	933.1	957.8	990.9	1003.2	999.1
32.5°	7931.0	6642.8	3761.1	1403.7	904.2	867.0	867.0	867.0	862.9	879.4	883.5
35°	8265.4	6659.4	3269.8	1085.8	825.7	796.8	784.4	767.9	759.7	767.9	772.0
37.5°	8628.7	6651.1	2762.0	924.8	767.9	743.1	714.2	689.5	685.3	693.6	681.2
40°	8789.7	6729.5	2291.3	829.8	714.2	685.3	639.9	619.3	623.4	631.7	623.4
42.5°	9008.5	6754.3	1985.8	755.5	664.7	619.3	590.4	565.6	561.5	573.9	569.7
45°	9004.4	6613.9	1663.8	714.2	619.3	569.7	532.6	511.9	511.9	520.2	524.3
47.5°	9268.6	6593.3	1428.5	677.1	586.3	536.7	491.3	474.8	470.7	470.7	462.4
50°	9883.8	6882.3	1246.8	635.8	545.0	499.6	462.4	441.8	425.2	417.0	412.9
52.5°	11085.2	7782.3	1106.5	586.3	499.6	462.4	429.4	412.9	392.2	371.6	367.4
54°	12249.4	8711.3	1098.2	545.0	462.4	437.6	408.7	400.5	375.7	346.8	338.5
55°	12773.8	9252.1	1127.1	511.9	437.6	421.1	396.3	388.1	363.3	330.3	326.2
57.5°	13207.3	9462.7	1110.6	425.2	396.3	392.2	371.6	359.2	330.3	284.9	276.6
60°	10631.0	7154.8	796.8	375.7	363.3	355.1	338.5	330.3	293.1	243.6	239.5
62.5°	6717.2	4116.2	507.8	330.3	317.9	305.5	284.9	276.6	243.6	194.0	181.7
65°	2861.1	1705.1	342.7	293.1	272.5	251.8	235.3	222.9	194.0	144.5	140.4
67.5°	743.1	606.9	284.9	256.0	227.1	198.2	185.8	165.1	132.1	99.1	95.0
70°	334.4	305.5	239.5	214.7	181.7	152.8	136.2	115.6	86.7	66.1	61.9
72.5°	198.2	194.0	181.7	161.0	136.2	115.6	99.1	78.4	57.8	37.2	37.2
75°	123.9	119.7	123.9	111.5	95.0	86.7	74.3	53.7	33.0	16.5	16.5
77.5°	74.3	74.3	74.3	70.2	66.1	66.1	53.7	33.0	16.5	4.1	4.1
80°	57.8	57.8	61.9	57.8	57.8	57.8	45.4	24.8	8.3	0.0	0.0
82.5°	57.8	61.9	70.2	66.1	57.8	49.5	41.3	24.8	8.3	0.0	0.0
85°	16.5	12.4	20.6	28.9	41.3	37.2	28.9	20.6	8.3	0.0	0.0
87.5°	8.3	8.3	8.3	8.3	4.1	4.1	4.1	4.1	4.1	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)