

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: P530287

Luminaire Tested: **GALN-SA5C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18751 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

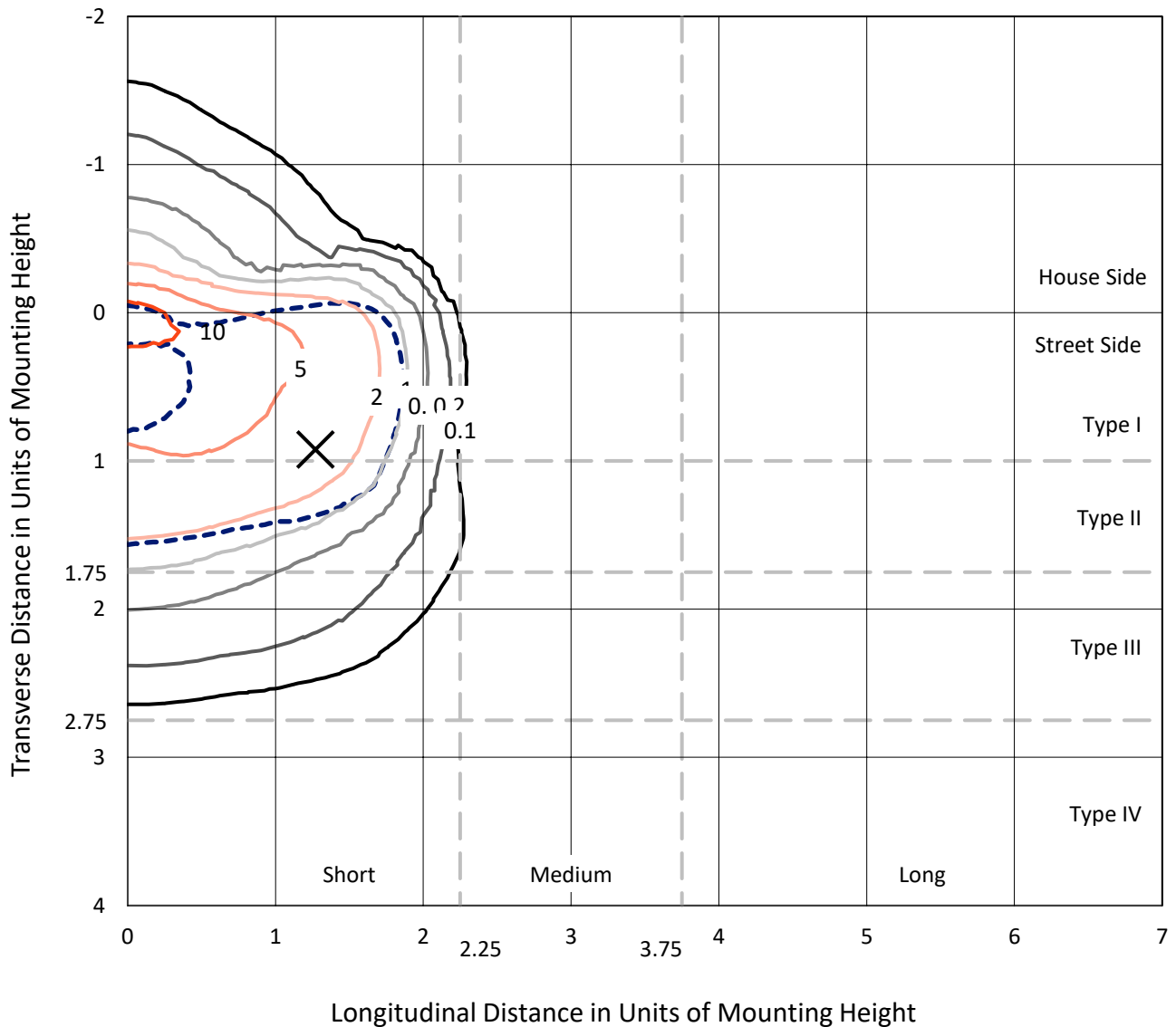
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

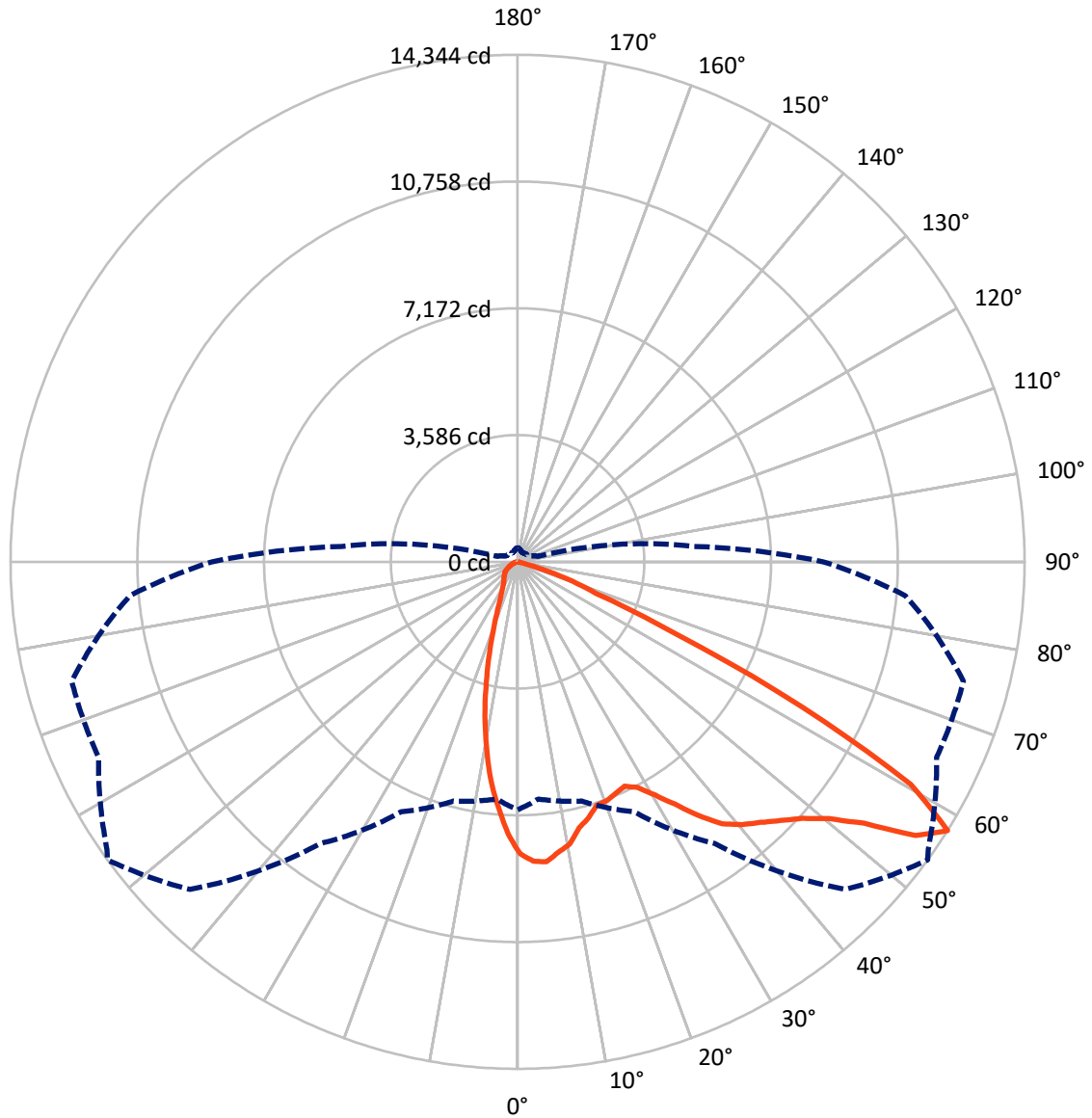
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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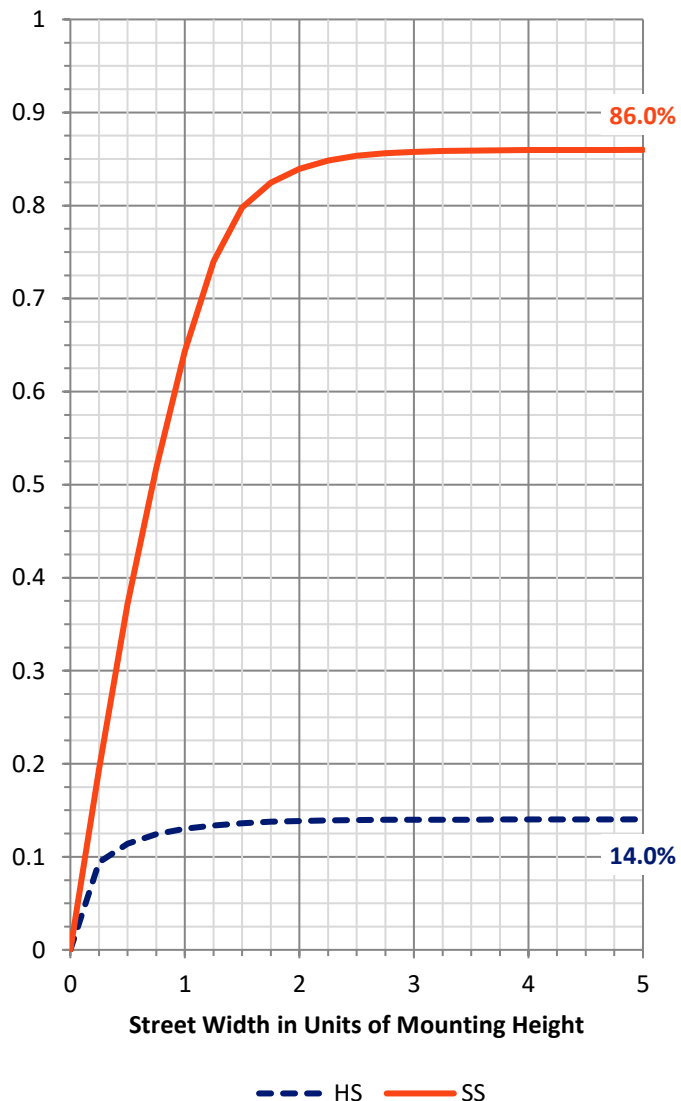
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2649.8	0.0	2649.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	16101.2	0.0	16101.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	18751.0	0.0	18751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.2	3.7
10°-20°	1475.7	7.9
20°-30°	1955.6	10.4
30°-40°	2842.1	15.2
40°-50°	4214.5	22.5
50°-60°	5270.0	28.1
60°-70°	2078.8	11.1
70°-80°	207.0	1.1
80°-90°	16.1	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°	18751.0	100.0
0°-180°	18751.0	100.0

**Coefficient of Utilization**

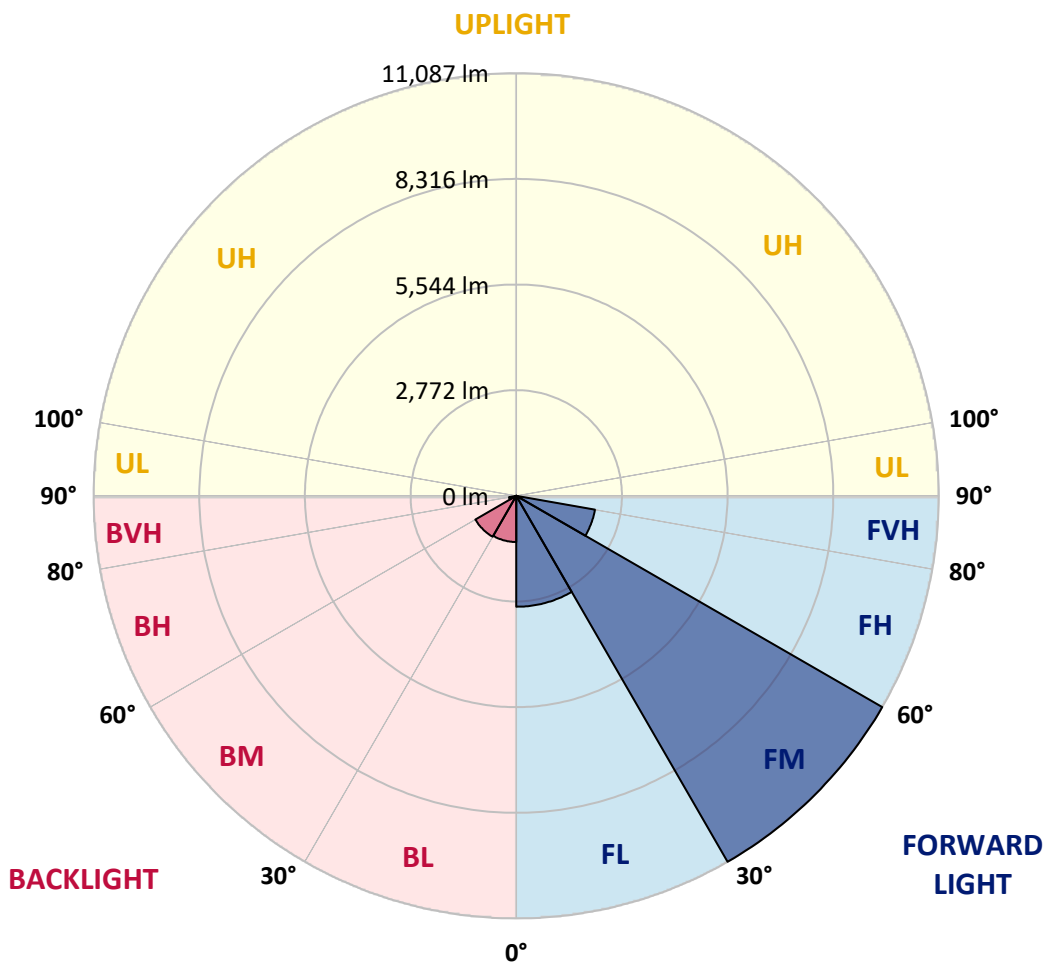


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.7	15.5			
FM (30°-60°)	11087.4	59.1			
FH (60°-80°)	2095.7	11.2			G2/5000
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	1211.9	6.5	B3/2500		
BM (30°-60°)	1239.1	6.6	B2/2500		
BH (60°-80°)	190.0	1.0	B1/500		G1/500
BVH (80°-90°)	8.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1
2.5°	8741.2	8650.6	8657.6	8626.2	8584.3	8615.7	8479.7	8511.1	8507.6	8322.8	8200.8
5°	8521.6	8619.2	8518.1	8601.8	8521.6	8608.7	8525.1	8462.3	8361.2	8225.2	7998.6
7.5°	8148.5	8054.4	8082.2	8186.8	8204.3	8399.5	8294.9	8375.1	8333.3	8064.8	7754.5
10°	7398.8	7377.9	7517.4	7656.9	7827.7	8036.9	8117.1	8071.8	8040.4	7939.3	7524.4
12.5°	6823.5	6882.8	6879.3	7109.4	7398.8	7517.4	7726.6	7719.6	7894.0	7705.7	7308.2
15°	6276.1	6307.5	6453.9	6596.9	6917.7	7255.9	7513.9	7548.8	7758.0	7625.5	7140.8
17.5°	5941.4	5896.1	6011.1	6182.0	6509.7	6952.5	7238.5	7322.1	7608.0	7580.2	6949.1
20°	5610.2	5610.2	5704.3	5906.5	6206.4	6705.0	7214.0	7189.6	7608.0	7527.9	6743.3
22.5°	5498.6	5554.4	5578.8	5732.2	6087.8	6516.7	7109.4	7154.8	7667.3	7503.4	6652.7
25°	5652.0	5578.8	5585.7	5707.8	6042.5	6426.0	7032.7	7133.9	7775.4	7625.5	6579.5
27.5°	5676.4	5749.6	5770.5	5854.2	6077.4	6453.9	7224.5	7430.2	8043.9	7911.4	6600.4
30°	5889.1	5962.3	5958.8	6101.8	6255.2	6680.6	7653.4	7695.2	8598.3	8270.5	6729.4
32.5°	6147.1	6223.8	6248.2	6415.6	6537.6	7095.5	8176.4	8284.5	9131.8	8835.4	7067.6
35°	6467.9	6440.0	6551.6	6718.9	6980.4	7702.2	8814.5	8995.8	9707.1	9567.6	7416.3
37.5°	6868.9	6834.0	6942.1	7214.0	7569.7	8420.5	9403.7	9522.3	10125.5	10247.5	8061.3
40°	7151.3	7165.2	7493.0	7859.1	8235.7	9103.9	9776.8	9891.9	10418.4	10882.1	8549.5
42.5°	7622.0	7709.2	8103.2	8549.5	8943.5	9616.4	10080.1	10191.7	10554.3	11391.2	9208.5
45°	8305.4	8267.0	8702.9	9201.5	9637.3	10149.9	10439.3	10400.9	10634.5	11896.7	9623.4
47.5°	9184.1	9191.0	9480.4	9905.8	10359.1	10613.6	10840.2	10704.3	10801.9	12430.2	10177.8
50°	9783.8	9836.1	10069.7	10505.5	10732.2	11122.7	11412.1	11328.4	11297.0	12751.0	10526.4
52.5°	9937.2	10094.1	10219.6	10763.5	11293.5	11910.7	12280.3	12458.1	11900.2	12859.1	10969.3
55°	8779.6	8919.1	9361.9	10108.0	11506.2	13158.9	13668.0	13671.5	12688.2	13340.2	11279.6
57.5°	7018.8	6736.4	7008.3	7799.8	9728.0	13106.6	14344.4	14180.5	13082.2	13057.8	11011.1
60°	4853.5	4783.8	4801.2	5115.0	6732.9	10425.3	12782.4	12995.0	12046.7	11317.9	8716.8
62.5°	3845.9	3786.6	3709.9	3675.0	4180.6	6495.8	9016.7	9316.5	8423.9	7339.6	5167.3
65°	3012.5	2977.7	2988.1	3127.6	3124.1	3685.5	4930.2	4808.2	3849.4	2845.2	1624.8
67.5°	2032.8	2085.1	2126.9	2548.8	2765.0	2566.2	2381.4	2311.7	1251.7	526.5	359.1
70°	1143.6	1150.6	1195.9	1593.4	2099.0	1990.9	1642.3	1642.3	624.1	191.8	205.7
72.5°	624.1	603.2	561.4	686.9	934.4	948.4	732.2	638.1	184.8	125.5	115.1
75°	303.3	299.9	258.0	212.7	202.2	167.4	129.0	118.5	83.7	80.2	69.7
77.5°	62.8	59.3	31.4	31.4	34.9	38.4	48.8	48.8	59.3	59.3	48.8
80°	0.0	0.0	3.5	13.9	24.4	34.9	41.8	41.8	48.8	48.8	38.4
82.5°	0.0	0.0	3.5	10.5	20.9	31.4	38.4	41.8	48.8	52.3	41.8
85°	0.0	0.0	0.0	7.0	17.4	24.4	20.9	20.9	17.4	13.9	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1
2.5°	8138.0	8131.1	7970.7	7880.0	7716.1	7573.2	7458.1	7374.4	7374.4	7322.1	7273.3
5°	7907.9	7848.6	7506.9	7287.3	6977.0	6746.8	6589.9	6467.9	6276.1	6328.4	6122.7
7.5°	7622.0	7472.1	7018.8	6684.1	6255.2	5927.4	5592.7	5296.3	5010.4	4881.4	4951.2
10°	7315.2	7053.7	6443.5	5913.5	5380.0	4780.3	4389.8	3915.6	3622.7	3605.3	3528.6
12.5°	6990.9	6694.5	5951.9	5219.6	4518.8	3797.1	3200.8	2758.0	2559.3	2339.6	2381.4
15°	6746.8	6307.5	5404.4	4522.3	3591.3	2862.6	2262.9	1921.2	1732.9	1680.6	1663.2
17.5°	6481.8	6011.1	4846.6	3779.6	2817.3	2060.7	1628.3	1464.4	1391.2	1391.2	1380.7
20°	6206.4	5676.4	4292.2	3089.2	2113.0	1537.6	1304.0	1251.7	1248.3	1244.8	1244.8
22.5°	6025.1	5292.9	3790.1	2454.7	1593.4	1230.8	1133.2	1112.3	1126.2	1168.1	1168.1
25°	5833.3	4923.3	3235.7	1893.3	1234.3	1056.5	1000.7	1014.6	1049.5	1087.9	1073.9
27.5°	5638.0	4682.7	2712.7	1485.3	1011.2	924.0	903.1	934.4	972.8	1007.7	997.2
30°	5592.7	4424.7	2217.6	1126.2	868.2	805.4	819.4	847.3	885.6	899.6	913.5
32.5°	5662.5	4222.4	1816.6	924.0	756.6	739.2	739.2	753.1	777.5	808.9	798.5
35°	5861.2	4107.4	1436.5	801.9	693.9	676.4	672.9	686.9	700.8	711.3	700.8
37.5°	6164.5	4016.7	1175.0	711.3	652.0	624.1	617.2	613.7	627.6	631.1	638.1
40°	6551.6	4065.5	997.2	655.5	610.2	578.8	557.9	557.9	557.9	568.3	571.8
42.5°	6970.0	4131.8	861.2	624.1	571.8	533.5	512.5	505.6	512.5	526.5	523.0
45°	7409.3	4260.8	774.1	575.3	537.0	488.1	460.2	453.3	470.7	498.6	495.1
47.5°	7820.7	4445.6	707.8	543.9	502.1	456.8	421.9	414.9	446.3	484.7	488.1
50°	8232.2	4766.4	683.4	519.5	477.7	425.4	394.0	387.0	421.9	470.7	481.2
52.5°	8706.4	5111.5	666.0	488.1	449.8	401.0	366.1	359.1	397.5	460.2	463.7
55°	9016.7	5404.4	652.0	432.4	397.5	362.6	334.7	331.2	373.1	428.9	442.8
57.5°	8654.1	4996.5	603.2	376.6	338.2	320.8	296.4	296.4	331.2	383.5	394.0
60°	6562.0	3288.0	428.9	303.3	285.9	275.5	265.0	265.0	292.9	331.2	334.7
62.5°	3842.4	1771.3	275.5	244.1	244.1	233.6	216.2	216.2	244.1	265.0	268.5
65°	1140.2	568.3	223.2	209.2	205.7	188.3	170.8	167.4	188.3	198.7	195.3
67.5°	327.8	261.5	184.8	174.3	170.8	143.0	132.5	129.0	132.5	125.5	122.0
70°	195.3	177.8	143.0	146.4	129.0	104.6	94.1	90.7	83.7	73.2	66.2
72.5°	108.1	108.1	104.6	111.6	90.7	69.7	59.3	48.8	38.4	31.4	27.9
75°	66.2	69.7	73.2	76.7	59.3	45.3	38.4	24.4	13.9	7.0	7.0
77.5°	45.3	48.8	52.3	55.8	48.8	41.8	31.4	17.4	3.5	0.0	0.0
80°	34.9	38.4	45.3	48.8	52.3	55.8	41.8	17.4	3.5	0.0	0.0
82.5°	38.4	41.8	52.3	48.8	48.8	48.8	38.4	17.4	3.5	0.0	0.0
85°	7.0	10.5	17.4	17.4	24.4	31.4	24.4	7.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)