

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: P533859

Luminaire Tested: **GALN-SA9B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30805 lumens
Efficiency: N/A
Efficacy: 84.6 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

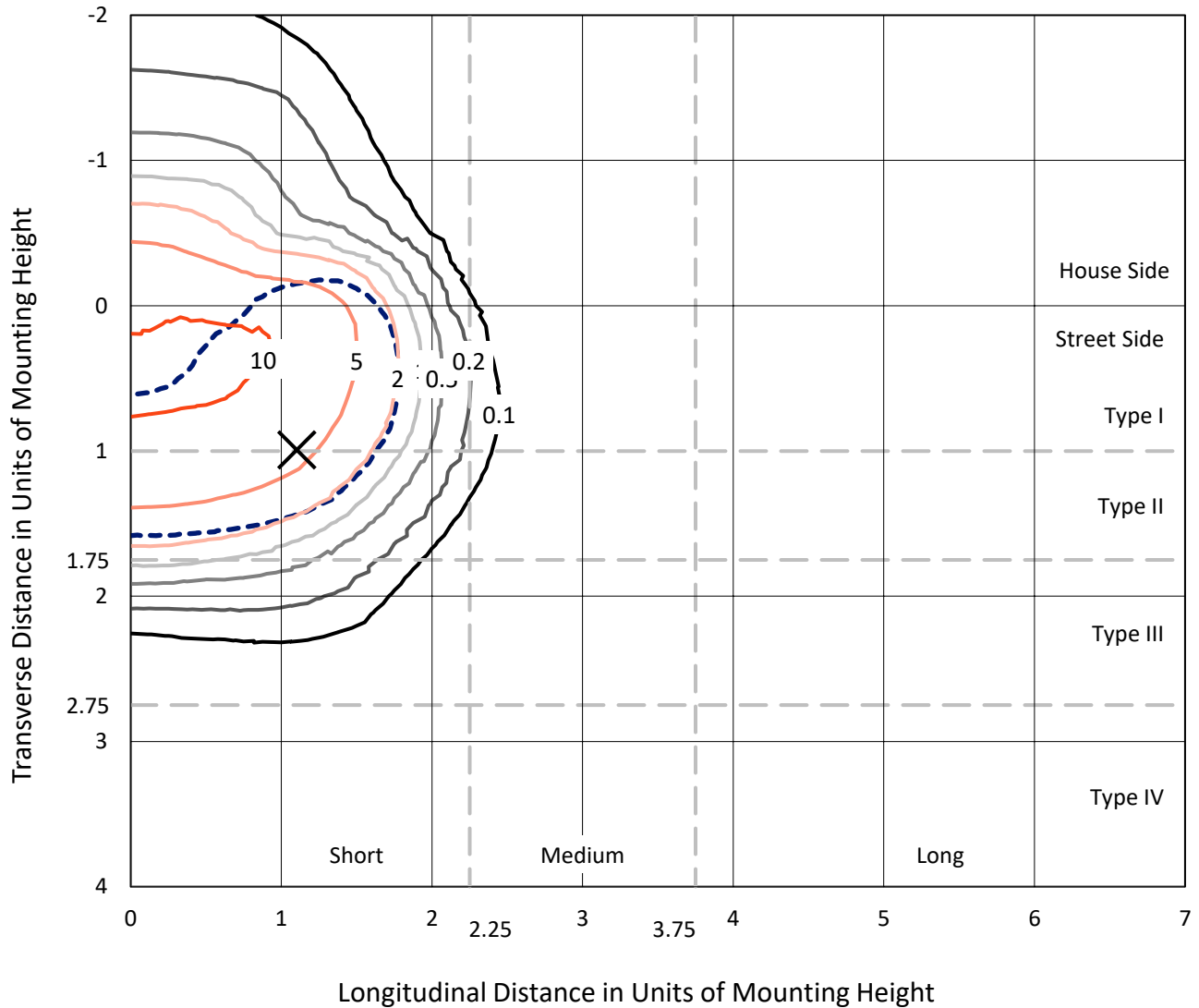
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

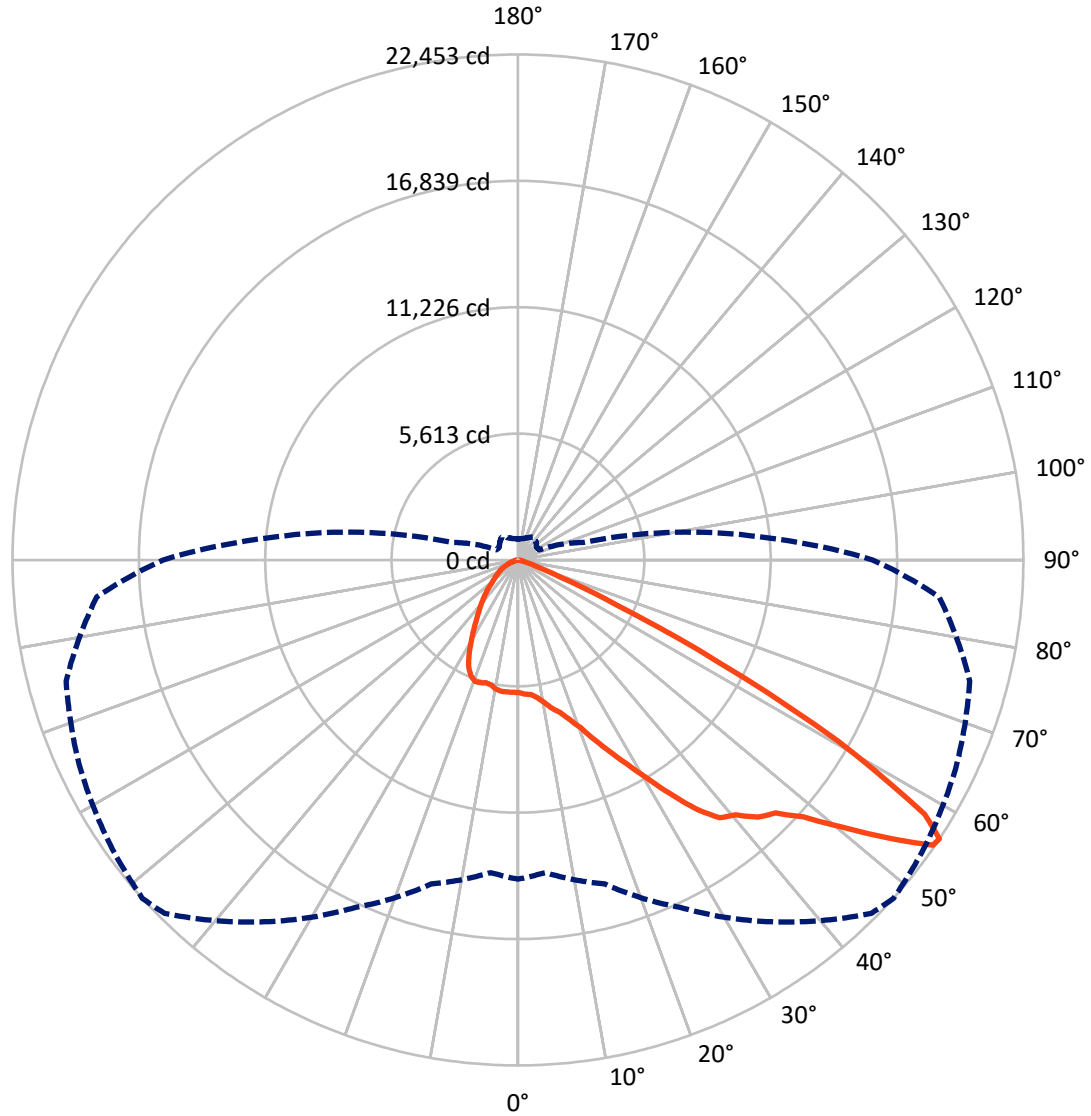
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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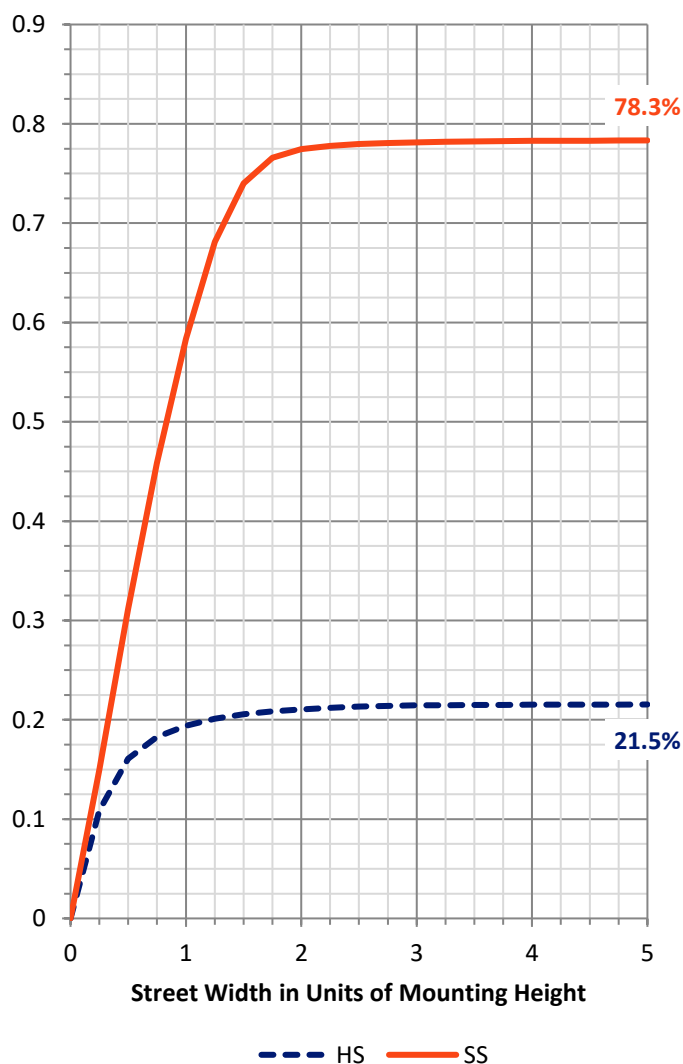
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6699.5	0.0	6699.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24105.5	0.0	24105.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	30805.0	0.0	30805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.1	1.9
10°-20°	1831.7	5.9
20°-30°	3322.3	10.8
30°-40°	5218.6	16.9
40°-50°	7613.0	24.7
50°-60°	9172.2	29.8
60°-70°	2685.5	8.7
70°-80°	340.7	1.1
80°-90°	47.8	0.2
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°	30805.0	100.0
0°-180°	30805.0	100.0

Coefficient of Utilization

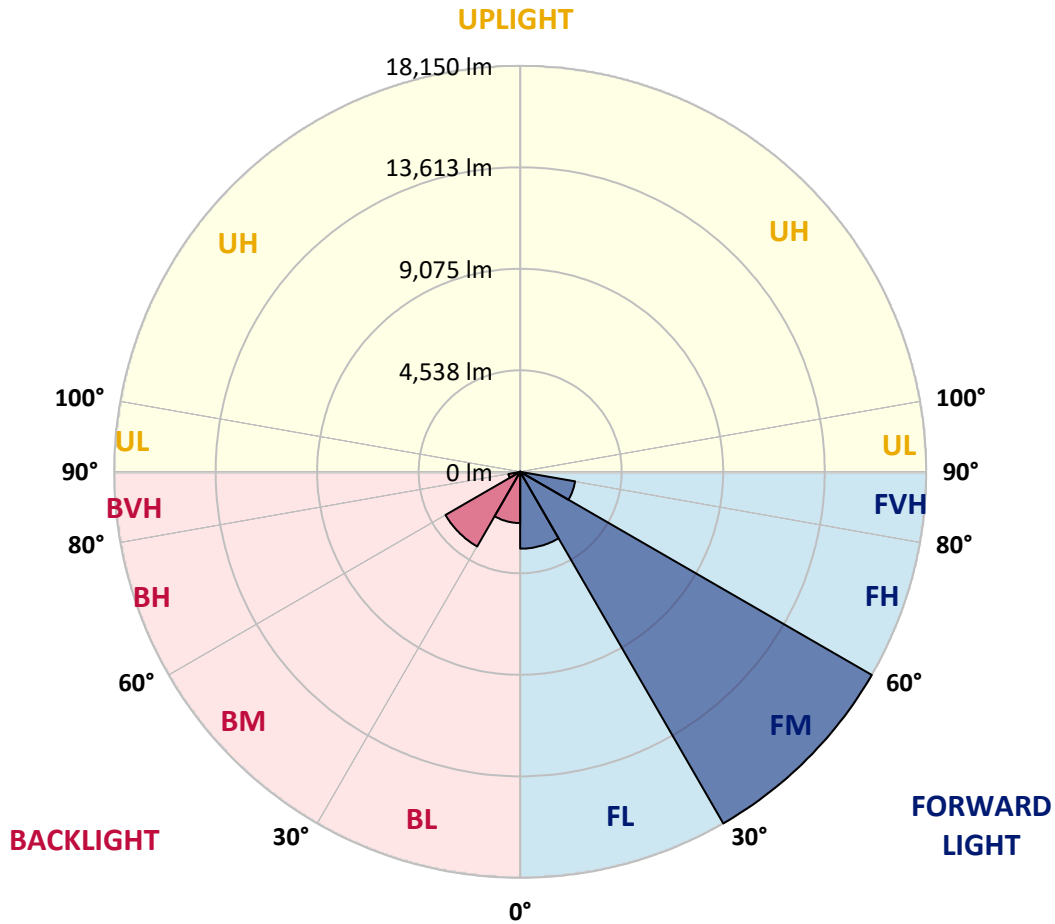


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.2	11.2			
FM (30°-60°)	18150.4	58.9			
FH (60°-80°)	2493.9	8.1			G2/5000
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	2289.9	7.4	B3/2500		
BM (30°-60°)	3853.5	12.5	B3/5000		
BH (60°-80°)	532.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	23.8	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°	48°	55°	65°	75°	85°
0°	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8
2.5°	5990.3	5962.3	5962.3	5917.4	5967.9	5945.5	5962.3	5906.2	5962.3	5878.2	5945.5
5°	6018.4	6024.0	6001.6	6029.6	6029.6	6063.3	6007.2	6057.6	6085.7	6024.0	5995.9
7.5°	6164.2	6175.4	6169.8	6147.4	6192.3	6186.7	6181.0	6141.8	6153.0	6130.6	6096.9
10°	6450.3	6444.7	6472.7	6416.6	6383.0	6422.2	6433.4	6371.7	6326.9	6310.0	6203.5
12.5°	6865.3	6798.0	6758.8	6702.7	6719.5	6663.4	6764.4	6657.8	6635.4	6534.4	6427.8
15°	7201.9	7190.6	7196.3	7106.5	7005.6	7028.0	7028.0	6971.9	6938.2	6814.9	6663.4
17.5°	7891.8	7656.2	7706.7	7594.5	7510.4	7504.7	7454.3	7465.5	7375.7	7117.7	6887.8
20°	8430.2	8329.3	8250.7	8060.0	7931.0	7970.3	7947.9	7891.8	7863.7	7527.2	7201.9
22.5°	8912.6	8946.2	8817.2	8766.8	8587.3	8604.1	8649.0	8598.5	8385.4	8037.6	7555.2
25°	9591.3	9552.0	9378.1	9316.4	9148.2	9209.9	9383.7	9344.5	9209.9	8581.7	7830.1
27.5°	10393.3	10258.7	10292.4	10011.9	9849.3	10023.2	10230.7	10427.0	10045.6	9221.1	8155.4
30°	10959.9	10819.6	10808.4	10797.2	10757.9	10959.9	11201.0	11380.5	11072.0	9860.5	8693.8
32.5°	11240.3	11274.0	11369.3	11335.6	11677.8	12092.9	12345.3	12603.3	12216.3	10903.8	9406.2
35°	11986.3	11773.1	11986.3	12008.7	12362.1	13242.7	13562.4	14179.4	14084.0	12378.9	10275.6
37.5°	12423.8	12407.0	12435.0	12648.1	12990.3	14078.4	14532.7	15009.5	14830.0	13265.1	11358.1
40°	13147.3	13192.2	13186.6	13349.3	13725.1	14706.6	14891.7	15278.7	15295.6	14493.5	12951.0
42.5°	14308.4	14128.9	14011.1	14179.4	14706.6	15250.7	15620.9	15542.3	16097.6	15985.5	14998.3
45°	15351.6	15458.2	15284.3	15564.8	15755.5	16047.2	16035.9	16204.2	16910.9	17443.8	16540.7
47.5°	16327.6	16394.9	16479.0	16669.7	17084.8	17129.7	17034.3	16961.4	17937.4	18487.0	17735.4
50°	16910.9	16972.6	17365.2	17707.4	18481.4	18582.4	18638.5	18453.4	19115.2	19176.9	18862.8
52.5°	16753.9	16821.2	17370.9	18498.3	19732.2	20657.7	20489.4	20175.3	20136.1	20377.2	19906.1
55°	15362.9	15301.2	16058.4	17814.0	20124.8	22346.0	22368.4	22037.5	21403.7	21241.0	19749.0
56°	14179.4	13938.2	14902.9	17023.1	19620.0	22200.1	22452.5	22099.2	21504.6	20775.5	18778.7
57.5°	11616.1	11846.1	12805.2	14560.8	17875.7	21151.3	21297.1	21213.0	20764.3	19541.5	16523.9
60°	6405.4	6809.2	7656.2	9804.4	12726.7	16232.2	16350.0	17034.3	17118.5	14964.6	11369.3
62.5°	2720.3	2675.5	3556.1	5137.8	7246.7	9798.8	10017.6	10718.7	10847.7	8626.5	5704.3
65°	1105.0	1166.7	1609.8	2585.7	3830.9	4464.7	4773.2	5003.2	5429.4	3561.7	2103.3
67.5°	729.2	723.6	947.9	1475.1	2064.1	1991.2	1991.2	2103.3	1946.3	1452.7	908.6
70°	521.6	538.5	678.7	1020.8	1284.4	953.5	914.3	875.0	992.8	959.1	734.8
72.5°	342.1	364.6	454.3	611.4	667.5	521.6	521.6	628.2	818.9	774.0	600.2
75°	224.4	230.0	280.4	353.4	330.9	269.2	297.3	420.7	594.5	572.1	426.3
77.5°	151.4	157.1	190.7	230.0	185.1	151.4	162.7	213.1	291.7	291.7	224.4
80°	56.1	61.7	78.5	72.9	84.1	106.6	117.8	145.8	173.9	173.9	151.4
82.5°	0.0	5.6	16.8	39.3	61.7	84.1	95.4	112.2	129.0	145.8	140.2
85°	0.0	5.6	16.8	28.0	44.9	50.5	56.1	39.3	33.7	33.7	28.0
87.5°	0.0	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.2	5.6	5.6
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°	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8	5883.8
2.5°	5883.8	5878.2	5878.2	5861.3	5895.0	5878.2	5889.4	5883.8	5810.9	5866.9	5827.7
5°	5945.5	5984.7	5923.0	5911.8	5866.9	5883.8	5883.8	5827.7	5878.2	5872.6	5861.3
7.5°	6102.5	6035.2	5967.9	5900.6	5889.4	5872.6	5810.9	5788.4	5827.7	5782.8	5850.1
10°	6169.8	6181.0	6080.1	5990.3	5906.2	5788.4	5704.3	5653.8	5592.1	5659.4	5698.7
12.5°	6478.3	6366.1	6192.3	6052.0	5766.0	5648.2	5564.1	5541.6	5648.2	5670.6	5631.4
15°	6584.9	6568.1	6343.7	6029.6	5732.3	5592.1	5608.9	5564.1	5575.3	5519.2	5530.4
17.5°	6803.6	6612.9	6349.3	5956.7	5726.7	5693.1	5592.1	5412.6	5311.7	5266.8	5306.0
20°	7044.8	6859.7	6478.3	5984.7	5777.2	5687.5	5356.5	5137.8	4930.3	4818.1	4823.7
22.5°	7258.0	7028.0	6422.2	5995.9	5822.1	5451.9	5053.6	4621.8	4363.7	4189.9	4195.5
25°	7516.0	7190.6	6444.7	6018.4	5704.3	5076.1	4504.0	4083.3	3774.8	3657.0	3696.3
27.5°	7661.8	7291.6	6568.1	6068.9	5395.8	4543.2	3926.3	3533.6	3354.1	3298.1	3292.4
30°	8099.3	7516.0	6719.5	5967.9	4879.8	3971.1	3399.0	3157.8	2984.0	2933.5	2944.7
32.5°	8749.9	7925.4	6915.8	5704.3	4352.5	3460.7	3056.9	2877.4	2714.7	2619.4	2608.2
35°	9294.0	8626.5	7123.3	5294.8	3741.2	3068.1	2815.7	2591.3	2344.5	2238.0	2209.9
37.5°	10331.7	9417.4	7078.5	4677.8	3157.8	2776.4	2557.7	2282.8	2069.7	1923.9	1907.0
40°	11711.4	10342.9	6859.7	3926.3	2725.9	2518.4	2282.8	2019.2	1755.6	1632.2	1621.0
42.5°	13388.5	11475.9	6461.5	3163.4	2294.1	2260.4	2047.3	1744.4	1508.8	1419.1	1424.7
45°	14751.5	12446.2	6057.6	2540.8	1974.3	2008.0	1822.9	1536.8	1374.2	1301.3	1301.3
47.5°	15963.0	13102.5	5620.1	2097.7	1677.1	1755.6	1592.9	1424.7	1284.4	1228.4	1217.1
50°	17129.7	13769.9	5182.7	1699.5	1430.3	1508.8	1492.0	1357.4	1245.2	1177.9	1183.5
52.5°	17858.8	13876.5	4627.4	1391.0	1250.8	1340.5	1396.6	1273.2	1149.8	1110.6	1099.4
55°	16967.0	12502.3	3589.7	1144.2	1060.1	1177.9	1284.4	1144.2	1048.9	981.6	976.0
56°	15766.7	11178.6	3000.8	1054.5	1004.0	1133.0	1245.2	1093.7	987.2	947.9	919.9
57.5°	13349.3	9148.2	2215.5	936.7	931.1	1054.5	1183.5	1043.3	919.9	886.2	886.2
60°	8323.7	5149.0	1340.5	785.3	807.7	936.7	1065.7	931.1	818.9	818.9	835.7
62.5°	3791.6	2142.6	813.3	667.5	695.5	807.7	947.9	841.3	779.6	841.3	852.6
65°	1290.1	925.5	588.9	532.8	549.7	667.5	813.3	852.6	846.9	886.2	908.6
67.5°	723.6	594.5	493.6	443.1	431.9	493.6	667.5	852.6	818.9	802.1	813.3
70°	611.4	504.8	437.5	392.6	375.8	398.2	516.0	645.0	577.7	560.9	549.7
72.5°	493.6	420.7	381.4	353.4	302.9	258.0	235.6	246.8	274.8	291.7	319.7
75°	347.8	319.7	319.7	286.1	218.7	162.7	129.0	106.6	72.9	50.5	56.1
77.5°	196.3	196.3	201.9	173.9	140.2	106.6	78.5	56.1	28.0	11.2	5.6
80°	134.6	145.8	157.1	140.2	117.8	95.4	67.3	39.3	16.8	0.0	0.0
82.5°	134.6	151.4	162.7	140.2	117.8	89.7	67.3	39.3	16.8	5.6	0.0
85°	28.0	33.7	39.3	44.9	67.3	67.3	50.5	33.7	16.8	5.6	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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)