

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: P652444

Luminaire Tested: **GALN-SA6B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652444
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-SA6B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 24007.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

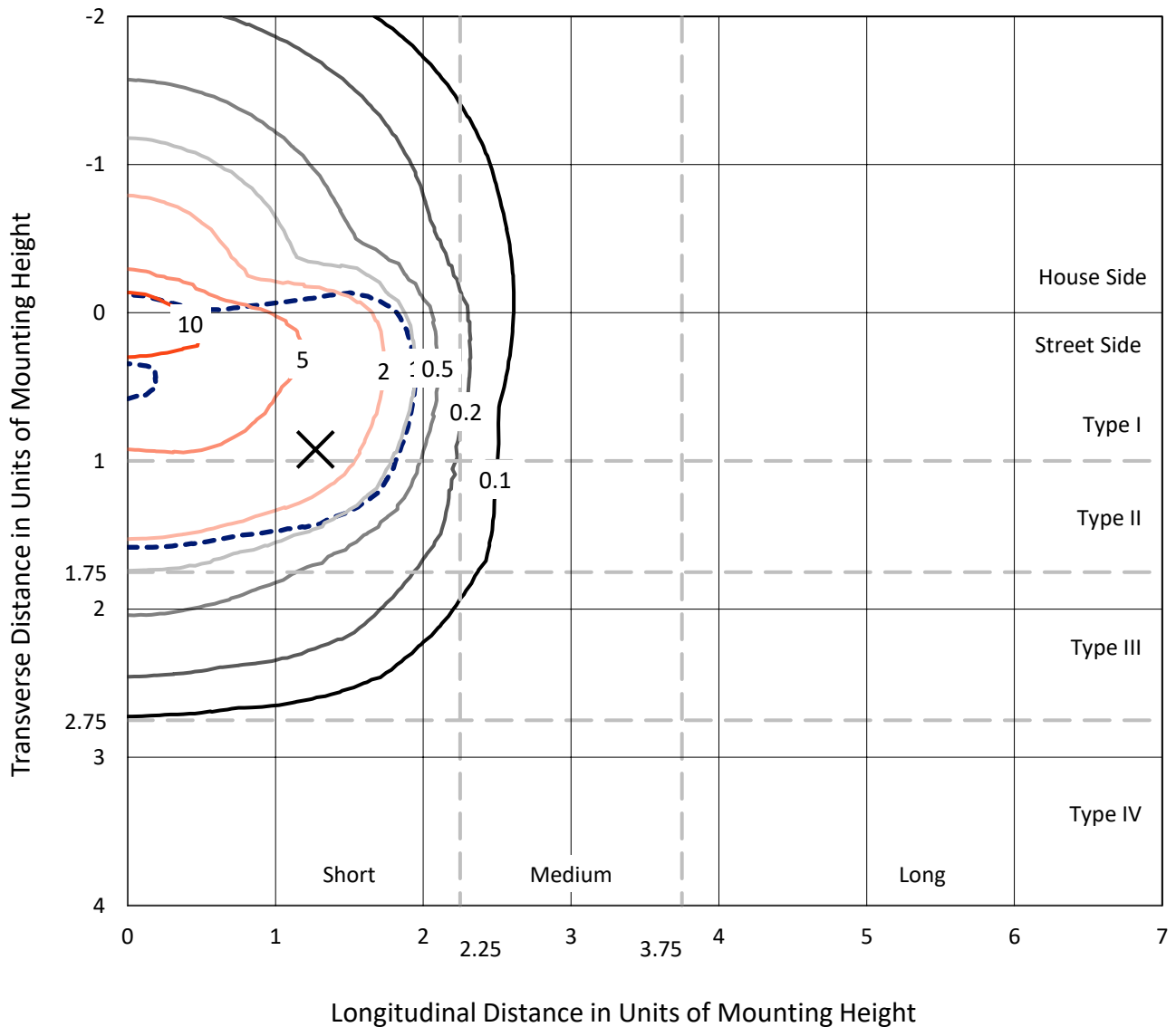
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

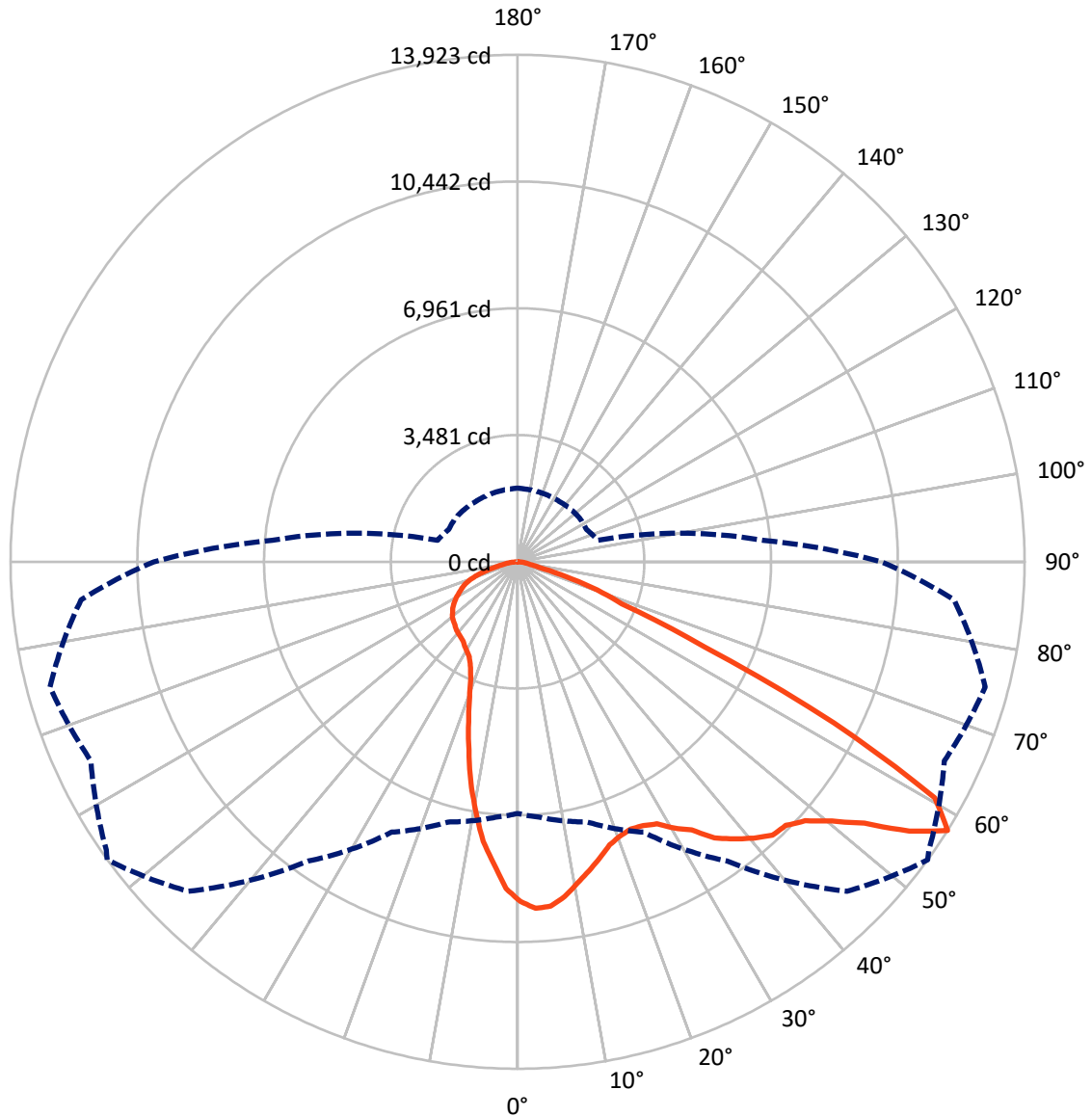
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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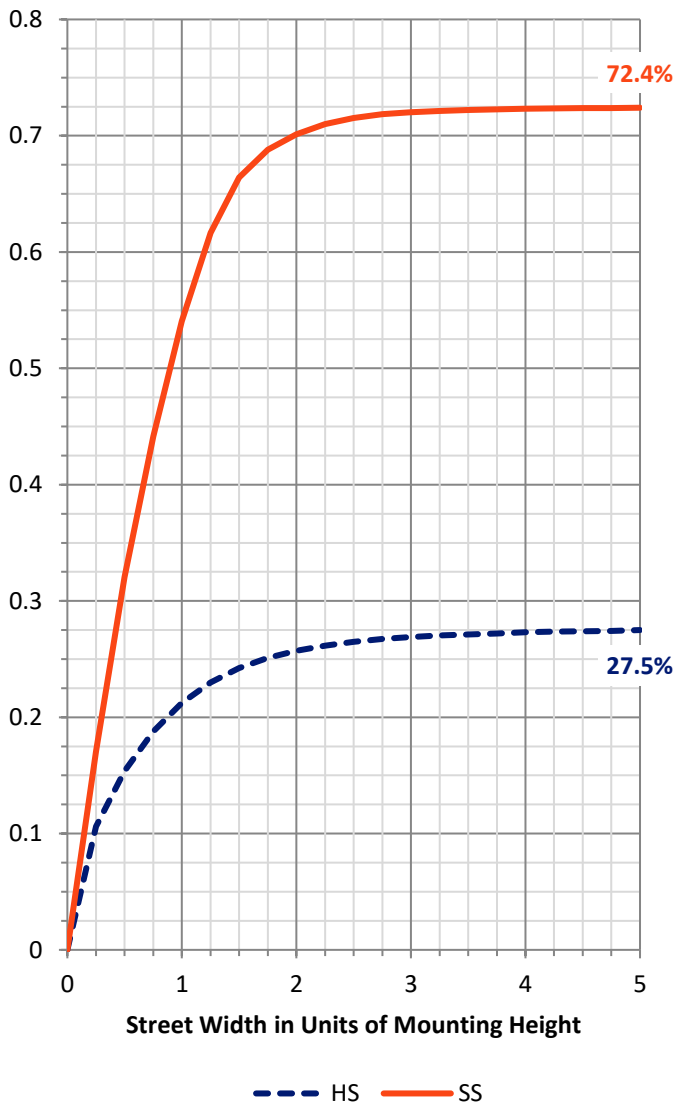
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6641.7	0.0	6641.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17365.5	0.0	17365.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	24007.2	0.0	24007.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.7	3.4
10°-20°	1863.3	7.8
20°-30°	2617.9	10.9
30°-40°	3659.8	15.2
40°-50°	4954.7	20.6
50°-60°	6035.1	25.1
60°-70°	3143.3	13.1
70°-80°	805.4	3.4
80°-90°	122.9	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°	24007.2	100.0
0°-180°	24007.2	100.0



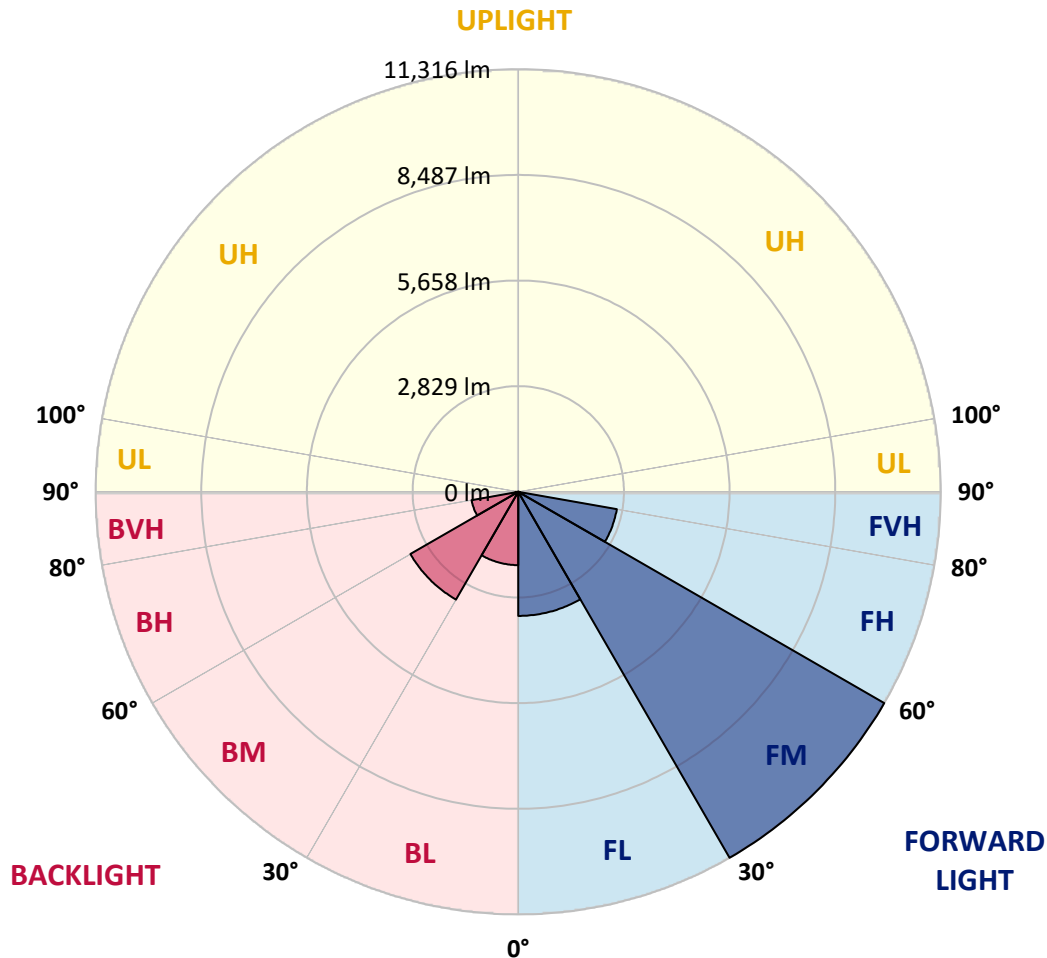
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.9	13.8			
FM (30°-60°)	11316.2	47.1			
FH (60°-80°)	2679.9	11.2			G2/5000
FVH (80°-90°)	46.4	0.2			G1/100
BL (0°-30°)	1963.0	8.2	B3/2500		
BM (30°-60°)	3333.4	13.9	B3/5000		
BH (60°-80°)	1268.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	76.4	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°	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3
2.5°	9596.7	9559.6	9565.9	9615.2	9553.5	9528.8	9528.8	9408.4	9417.7	9334.4	9312.8
5°	9374.5	9288.1	9346.7	9420.8	9433.2	9457.8	9497.9	9467.1	9380.7	9291.2	9146.2
7.5°	8794.4	8871.5	8893.2	8945.6	9056.6	9158.5	9285.1	9198.6	9195.6	9106.1	9019.6
10°	8285.3	8238.9	8356.3	8433.4	8618.5	8788.2	8982.6	8973.4	9019.6	8917.8	8769.7
12.5°	7779.2	7742.2	7797.7	7973.6	8232.8	8479.6	8711.1	8624.7	8871.5	8853.0	8535.2
15°	7242.3	7270.0	7350.3	7513.8	7853.3	8149.5	8442.6	8445.7	8664.8	8738.8	8313.0
17.5°	6865.8	6835.0	6936.7	7180.5	7483.0	7837.8	8171.1	8238.9	8575.3	8618.5	8245.2
20°	6585.0	6628.2	6760.9	6884.3	7233.0	7661.9	8038.4	8063.1	8556.8	8674.1	8137.1
22.5°	6517.1	6492.4	6535.7	6736.2	7023.2	7489.1	7967.4	8060.0	8553.7	8655.6	7933.5
25°	6446.1	6526.3	6523.3	6723.9	6933.7	7350.3	8026.1	8127.8	8717.2	8751.2	7961.2
27.5°	6606.6	6597.3	6683.8	6699.2	6958.3	7387.3	8149.5	8226.6	8988.8	8961.0	7982.9
30°	6767.0	6720.8	6773.2	6955.3	7075.7	7600.2	8488.9	8482.7	9340.6	9322.1	8050.7
32.5°	6964.6	6943.0	6976.9	7137.3	7341.0	7884.1	8775.9	8957.9	9698.5	9815.8	8285.3
35°	7001.6	7091.1	7171.3	7387.3	7677.3	8343.9	9315.9	9467.1	10112.0	10479.2	8732.7
37.5°	7236.1	7270.0	7458.2	7840.9	8106.3	8957.9	9658.4	9754.1	10488.4	10905.1	9204.8
40°	7486.1	7526.2	7810.0	8211.2	8575.3	9359.1	9979.3	10010.2	10608.8	11232.1	9513.4
42.5°	7825.5	7862.5	8143.3	8646.3	9133.8	9701.6	10263.2	10297.1	10599.5	11608.6	10004.0
45°	8177.2	8266.7	8596.9	9167.7	9606.0	10102.8	10328.0	10466.8	10686.0	11945.0	10402.1
47.5°	8671.0	8754.3	9025.9	9584.4	10096.6	10454.6	10627.3	10763.1	10892.7	12238.1	10658.2
50°	9195.6	9211.0	9541.1	10047.2	10423.7	10852.6	11185.9	11232.1	11164.3	12577.5	11093.3
52.5°	9581.3	9630.6	9886.7	10380.5	10942.1	11469.7	11926.5	11975.8	11843.1	12704.1	11241.4
55°	8942.5	8914.8	9331.3	9988.6	11290.8	12389.3	13052.7	13089.7	12336.9	13096.0	11725.9
57.5°	6912.1	7044.8	7399.6	8192.7	10031.8	12796.7	13922.9	13790.2	12929.3	13293.4	12034.5
60°	5023.6	4992.8	5230.3	5761.1	7560.1	11028.5	13163.8	13299.6	12444.9	11982.0	9923.8
62.5°	4091.7	4048.5	4067.0	4085.6	4878.6	7319.4	9744.8	9741.7	9584.4	8612.3	6693.0
65°	3270.9	3372.7	3382.0	3520.8	3622.7	4372.5	5646.9	5949.3	5181.0	4249.1	3082.7
67.5°	2465.5	2428.5	2551.9	3045.6	3236.9	3156.7	3082.7	3116.6	2215.5	1598.4	1505.8
70°	1453.4	1437.9	1586.0	2123.0	2666.1	2508.7	2323.6	2326.6	1521.3	1117.0	1243.6
72.5°	796.1	793.1	823.9	1076.9	1515.1	1573.8	1394.8	1437.9	907.2	904.2	972.0
75°	444.4	435.0	425.8	475.2	546.1	577.0	589.4	595.5	623.3	697.4	725.1
77.5°	163.6	157.4	157.4	182.1	231.4	290.1	367.2	373.4	441.3	506.0	533.9
80°	55.5	61.7	83.3	114.2	154.3	206.7	249.9	256.1	311.7	354.9	364.2
82.5°	34.0	37.0	55.5	80.2	111.1	145.0	185.1	188.2	231.4	259.2	271.6
85°	15.4	18.5	30.9	49.4	71.0	95.6	98.7	98.7	95.6	98.7	92.6
87.5°	0.0	0.0	6.1	6.1	6.1	9.3	12.4	9.3	15.4	18.5	18.5
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°	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3	9331.3
2.5°	9248.0	9214.1	9109.1	9016.6	8988.8	8865.4	8683.3	8704.9	8572.2	8634.0	8569.1
5°	9121.5	9007.3	8738.8	8624.7	8325.4	8189.6	8097.0	7865.6	7757.6	7736.0	7643.4
7.5°	8797.4	8726.6	8390.2	8081.6	7763.8	7492.2	7143.5	6906.0	6736.2	6689.9	6554.2
10°	8541.4	8384.0	7918.0	7449.0	6995.4	6523.3	6069.7	5714.8	5542.0	5341.4	5273.6
12.5°	8288.3	8050.7	7421.2	6819.5	6233.2	5637.6	5088.4	4656.4	4279.9	4190.5	4159.6
15°	8131.0	7717.4	6976.9	6251.7	5418.6	4641.0	4091.7	3807.8	3576.4	3480.7	3548.6
17.5°	7924.2	7442.8	6551.1	5585.2	4668.7	3952.9	3493.1	3317.2	3233.9	3243.1	3215.4
20°	7665.0	7183.7	5992.5	4980.4	3999.1	3428.3	3165.9	3101.2	3113.6	3135.2	3125.8
22.5°	7479.9	6868.9	5588.3	4363.3	3456.0	3138.2	3030.2	2984.0	3024.1	3042.6	3027.1
25°	7337.9	6600.4	5097.6	3817.0	3141.3	2974.7	2925.3	2922.2	2984.0	3008.6	2993.2
27.5°	7208.3	6350.5	4610.1	3400.5	2931.5	2848.1	2832.7	2869.7	2909.9	2934.6	2956.1
30°	7131.2	6159.1	4153.4	3051.8	2826.5	2786.4	2758.6	2792.6	2814.2	2838.9	2826.5
32.5°	7205.3	6023.4	3712.2	2854.4	2740.1	2700.0	2737.0	2715.5	2752.5	2774.1	2740.1
35°	7436.6	5903.1	3397.4	2749.4	2641.4	2656.8	2663.0	2653.8	2669.2	2650.7	2690.8
37.5°	7665.0	5859.8	3107.3	2659.9	2595.2	2595.2	2588.9	2570.4	2601.3	2595.2	2613.7
40°	7955.1	5887.6	2860.5	2564.3	2551.9	2545.7	2521.1	2518.0	2505.6	2508.7	2514.9
42.5°	8208.1	5949.3	2718.5	2502.6	2511.8	2524.2	2477.8	2440.8	2456.2	2425.4	2425.4
45°	8476.5	6004.9	2592.0	2459.3	2450.1	2447.0	2410.0	2388.4	2376.0	2379.1	2406.9
47.5°	8899.3	6085.1	2496.3	2400.7	2406.9	2360.6	2351.4	2323.6	2335.9	2354.5	2357.5
50°	9198.6	6254.9	2422.3	2332.8	2354.5	2323.6	2268.0	2255.6	2255.6	2286.5	2280.4
52.5°	9408.4	6492.4	2351.4	2258.8	2268.0	2243.4	2224.9	2197.0	2178.5	2221.8	2243.4
55°	10050.3	6887.4	2332.8	2197.0	2194.0	2169.3	2135.4	2107.5	2098.3	2104.5	2147.7
57.5°	9988.6	6764.0	2274.2	2089.0	2082.9	2048.9	2015.0	2005.7	2002.7	2008.8	2021.2
60°	8109.3	4995.9	2030.4	1965.6	1956.3	1950.2	1916.2	1879.2	1860.7	1879.2	1863.8
62.5°	5366.1	3345.0	1789.7	1817.5	1823.7	1808.2	1752.7	1715.6	1721.9	1743.5	1709.5
65°	2635.3	1965.6	1623.1	1697.1	1703.4	1660.1	1607.7	1564.5	1542.9	1561.4	1545.9
67.5°	1505.8	1502.8	1487.3	1564.5	1561.4	1518.2	1434.9	1397.8	1360.8	1367.0	1357.7
70°	1277.5	1302.2	1333.1	1379.3	1376.2	1326.8	1228.1	1200.4	1147.9	1141.7	1126.3
72.5°	1005.9	1049.1	1117.0	1151.0	1123.2	1061.5	996.7	950.4	904.2	876.3	885.6
75°	746.7	808.5	845.5	867.1	823.9	790.0	737.5	682.0	626.4	601.7	592.5
77.5°	543.1	561.6	595.5	611.0	583.2	549.3	518.4	462.9	410.4	376.4	367.2
80°	379.5	391.9	416.5	416.5	416.5	401.2	361.0	305.5	271.6	240.7	234.6
82.5°	265.3	277.7	302.4	290.1	286.9	268.4	243.8	200.6	163.6	142.0	135.7
85°	92.6	101.8	123.5	148.1	157.4	154.3	138.8	111.1	86.4	71.0	64.8
87.5°	21.6	21.6	24.7	21.6	21.6	24.7	21.6	21.6	21.6	15.4	12.4
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)