

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: P530282

Luminaire Tested: **GALN-SA5C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28933 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

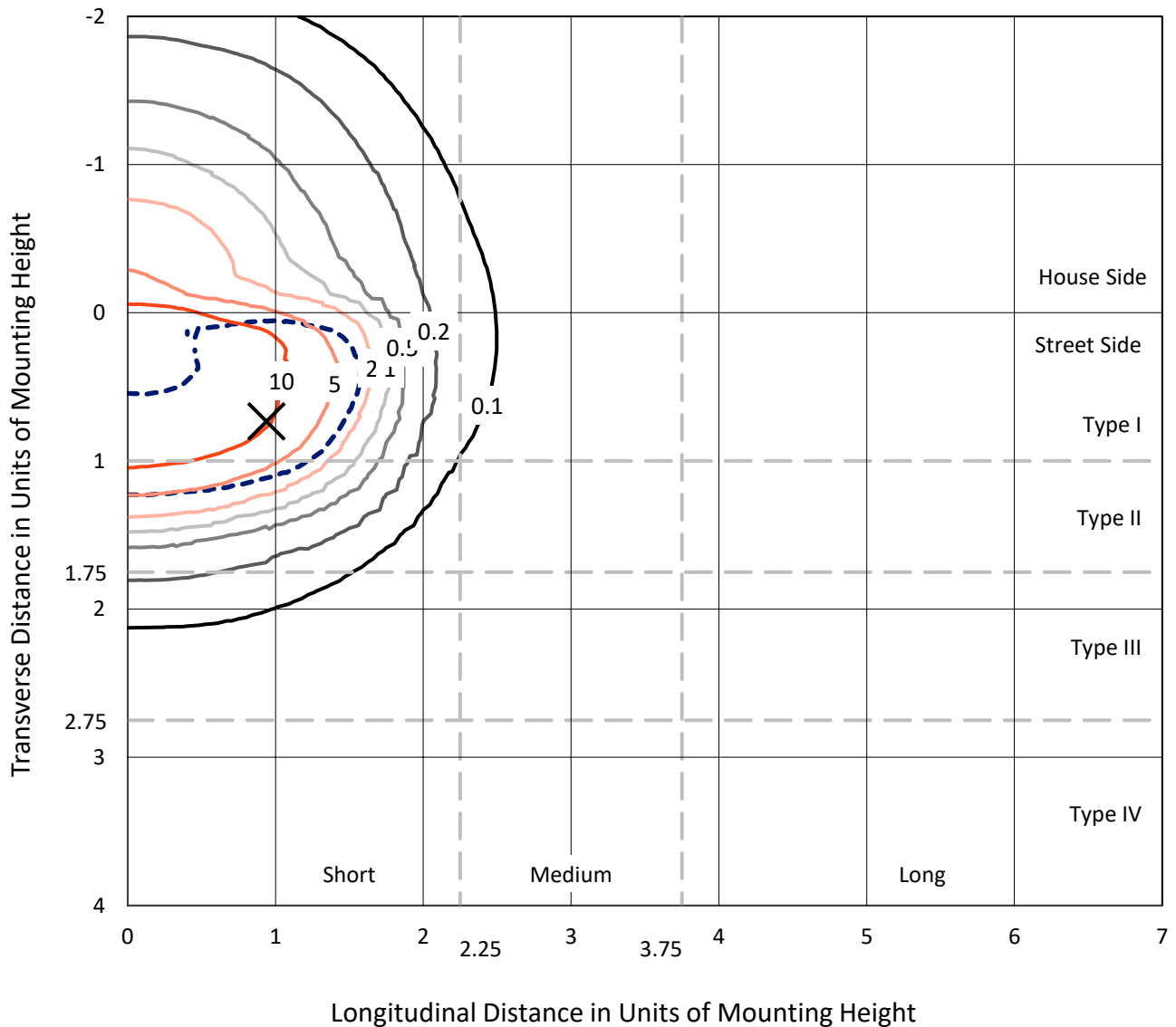
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

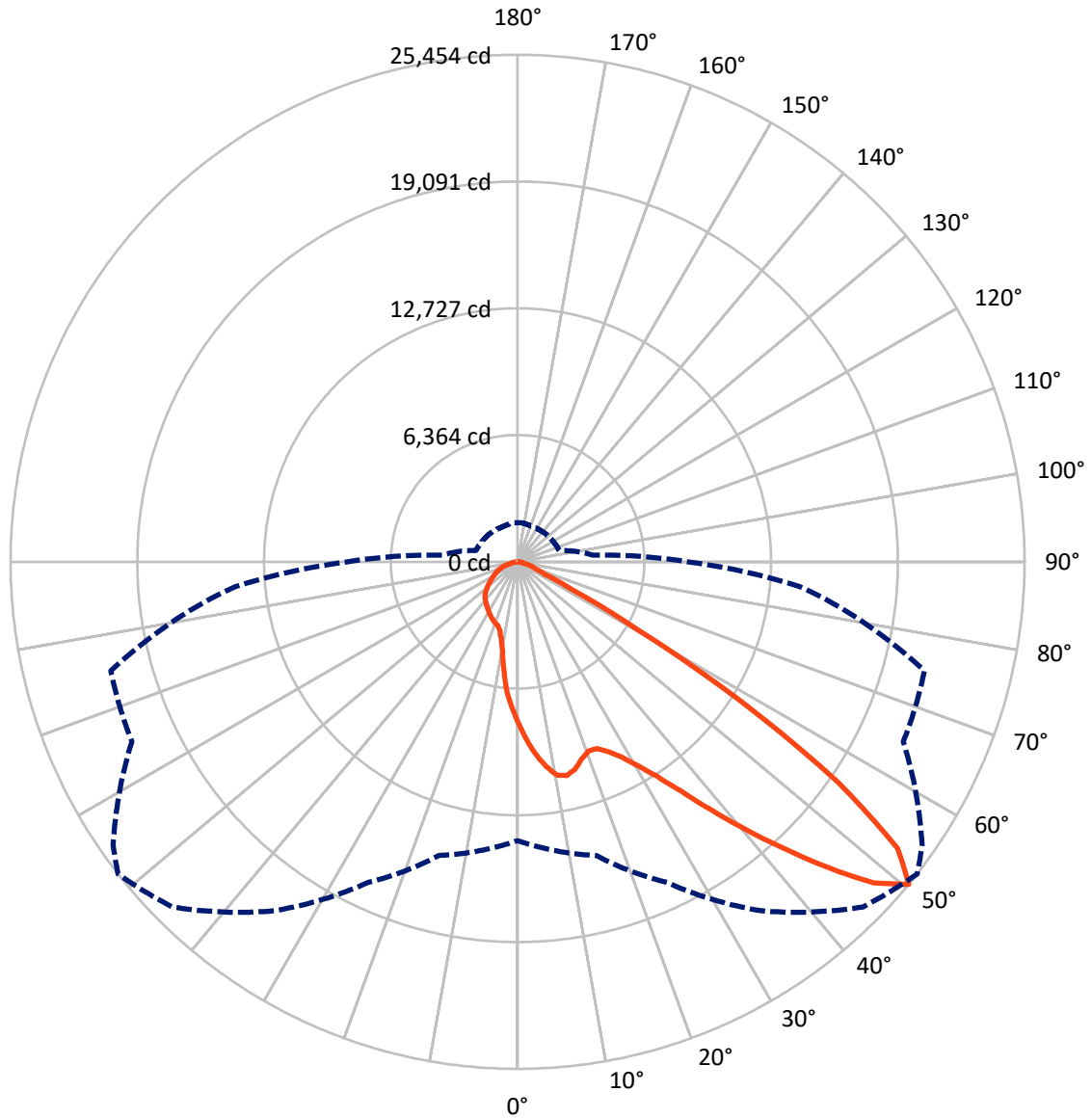
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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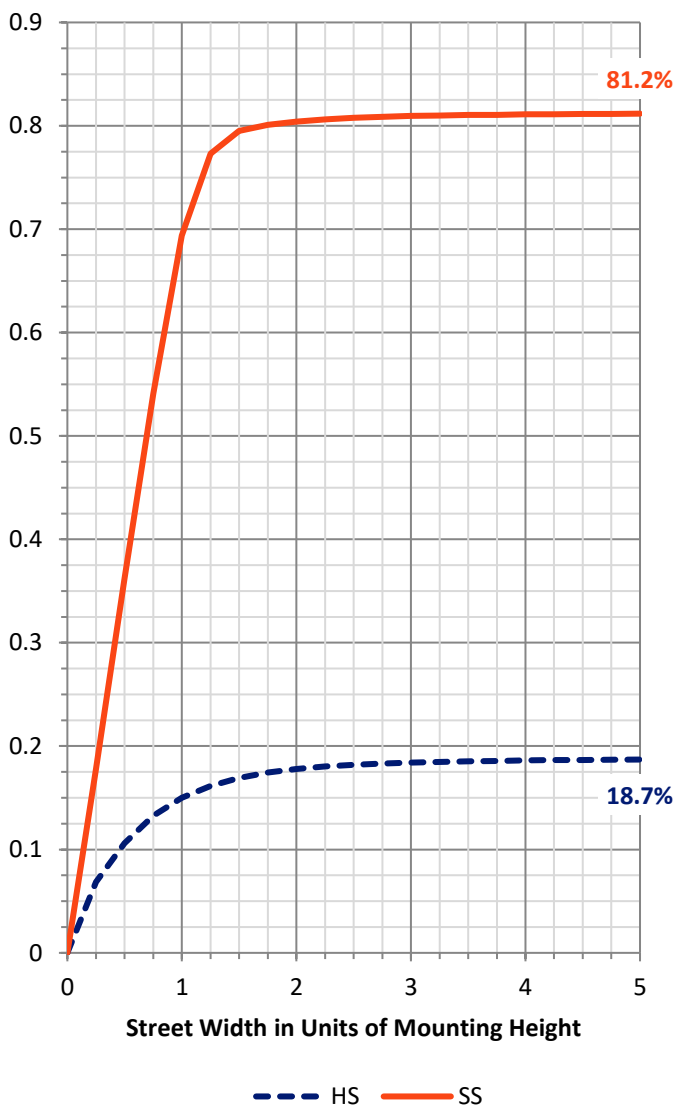
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5438.7	0.0	5438.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23494.3	0.0	23494.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	28933.0	0.0	28933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	2.6
10°-20°	2014.8	7.0
20°-30°	3393.8	11.7
30°-40°	5695.1	19.7
40°-50°	8712.1	30.1
50°-60°	6351.8	22.0
60°-70°	1413.6	4.9
70°-80°	509.9	1.8
80°-90°	90.3	0.3
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°	28933.0	100.0
0°-180°	28933.0	100.0

Coefficient of Utilization

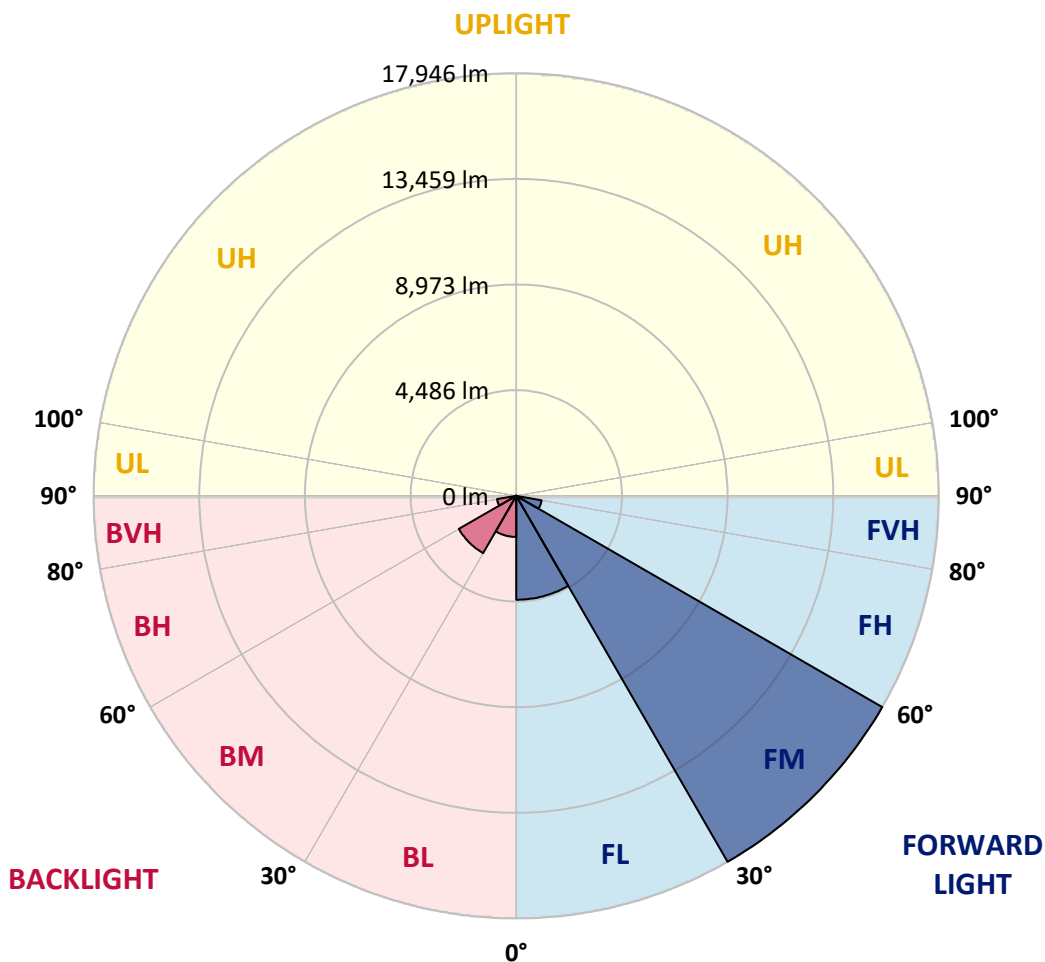


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4413.3	15.3			
FM (30°-60°)	17945.7	62.0			
FH (60°-80°)	1094.9	3.8			G1/1800
FVH (80°-90°)	40.4	0.1			G1/100
BL (0°-30°)	1747.0	6.0	B3/2500		
BM (30°-60°)	2813.3	9.7	B3/5000		
BH (60°-80°)	828.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	49.8	0.2			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°	52°	55°	65°	75°	85°
0°	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7
2.5°	9602.8	9418.0	9438.9	9306.4	9163.4	9121.6	8975.1	8835.7	8731.1	8507.9	8302.2
5°	10495.4	10439.6	10355.9	10251.3	10143.2	9878.2	9728.3	9554.0	9170.4	8825.2	8483.5
7.5°	10624.4	10614.0	10659.3	10659.3	10697.6	10596.5	10383.8	10261.8	9853.8	9292.4	8657.8
10°	9717.8	9749.2	9968.9	10254.8	10652.3	10927.8	10892.9	10861.5	10415.2	9648.1	8863.6
12.5°	8996.1	8926.3	9055.3	9299.4	9895.7	10561.7	11011.5	11014.9	10899.9	10216.5	9013.5
15°	8588.1	8636.9	8671.8	8786.9	9236.7	10007.2	10798.8	11032.4	11538.0	10617.4	9250.6
17.5°	8849.6	8685.7	8678.8	8706.7	8936.8	9515.6	10404.7	10805.7	11886.7	11133.5	9543.5
20°	9191.3	9187.8	9090.2	9055.3	9051.9	9567.9	10146.7	10690.7	12071.5	11803.0	9839.9
22.5°	9791.1	9791.1	9630.7	9554.0	9390.1	9812.0	10181.6	10551.2	12378.3	12263.2	9982.8
25°	10795.3	10631.4	10355.9	10167.6	10073.5	10223.4	10551.2	10882.4	12646.8	12751.4	10279.2
27.5°	11722.8	11464.7	11328.8	11004.5	10879.0	10791.8	11091.7	11426.4	12960.6	13511.5	10439.6
30°	12775.8	12730.5	12486.4	12068.0	11757.6	11597.3	11872.7	12204.0	13535.9	14289.1	10809.2
32.5°	14658.7	14247.3	13916.0	13403.4	12897.8	12556.1	12828.1	13047.8	14491.3	15101.5	11213.7
35°	16691.5	16559.0	15987.2	15063.2	14289.1	13982.3	14142.6	14306.5	15603.6	16342.8	11893.6
37.5°	18689.5	18508.2	18037.5	17259.9	16318.4	15694.3	15809.4	16001.1	16851.9	18016.5	12723.5
40°	20126.1	19902.9	19665.8	19550.7	18616.3	17762.0	17695.7	17744.6	18539.6	19585.6	13644.0
42.5°	20230.7	20506.1	20579.4	21043.1	20823.4	20122.6	19714.6	19725.1	20150.5	21137.3	14575.0
45°	20011.0	19756.5	20296.9	21562.7	22287.9	22615.7	21928.8	21841.6	21147.7	22036.9	15038.8
47.5°	17706.2	17775.9	18689.5	20690.9	22786.5	24251.0	24090.6	23801.2	21681.2	22005.5	14965.5
50°	13996.2	14418.1	15265.4	17758.5	21391.8	24509.0	25454.0	24784.5	21363.9	21140.7	14219.4
52.5°	9320.3	9494.7	10052.6	13270.9	17200.6	21907.9	23884.9	24038.3	21071.0	20007.5	13274.4
55°	4149.3	4135.4	4919.9	6931.9	10791.8	16670.6	19515.9	20450.4	19944.8	18853.4	12353.9
57.5°	1757.4	1816.6	2137.4	2995.2	5307.0	10059.6	13222.1	14041.5	15338.6	15481.6	9477.2
60°	1189.0	1196.0	1283.2	1499.3	2221.1	4724.7	6935.3	7918.6	8846.1	8783.4	5028.0
62.5°	934.5	958.9	1025.1	1112.3	1318.0	2144.4	3103.3	3650.7	3710.0	3120.7	1907.3
65°	798.5	802.0	868.2	941.4	1032.1	1248.3	1495.9	1523.8	1541.2	1485.4	1401.7
67.5°	659.0	666.0	718.3	802.0	885.7	955.4	1025.1	1060.0	1140.2	1297.1	1276.2
70°	523.0	533.5	578.8	648.6	725.3	767.1	854.3	885.7	958.9	1080.9	1129.7
72.5°	397.5	401.0	439.3	488.2	557.9	599.7	673.0	707.8	756.6	861.3	906.6
75°	285.9	296.4	324.3	348.7	359.1	387.0	456.8	495.1	564.9	610.2	613.7
77.5°	149.9	156.9	163.9	163.9	198.8	251.1	296.4	317.3	366.1	401.0	383.6
80°	59.3	62.8	80.2	108.1	139.5	181.3	212.7	223.2	265.0	285.9	296.4
82.5°	34.9	38.4	52.3	76.7	101.1	129.0	153.4	163.9	191.8	216.2	223.2
85°	17.4	20.9	31.4	48.8	66.3	80.2	76.7	73.2	73.2	69.7	73.2
87.5°	7.0	7.0	10.5	10.5	10.5	13.9	17.4	17.4	17.4	20.9	20.9
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°	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7	8155.7
2.5°	8166.2	8026.7	7897.7	7660.6	7402.6	7329.4	7029.5	6921.4	6844.7	6754.0	6726.1
5°	8208.0	8023.2	7608.3	7130.6	6750.5	6262.4	5941.6	5596.4	5345.3	5282.6	5265.1
7.5°	8295.2	7977.9	7263.1	6541.3	5763.8	5101.3	4595.7	4323.7	4083.1	4069.1	4044.7
10°	8392.8	7841.9	6886.5	5753.3	4759.5	4145.9	3842.5	3724.0	3664.7	3650.7	3643.8
12.5°	8473.0	7814.0	6464.6	4986.2	4048.2	3678.6	3588.0	3577.5	3601.9	3608.9	3622.8
15°	8507.9	7702.4	5955.5	4299.3	3605.4	3469.4	3507.8	3549.6	3567.0	3612.4	3577.5
17.5°	8574.2	7559.5	5327.9	3755.3	3357.8	3382.2	3448.5	3497.3	3525.2	3556.6	3511.3
20°	8609.0	7430.5	4738.6	3431.1	3270.7	3316.0	3406.6	3445.0	3479.9	3493.8	3441.5
22.5°	8577.6	7165.5	4219.1	3169.5	3187.0	3246.3	3326.5	3368.3	3347.4	3291.6	3260.2
25°	8494.0	6792.4	3678.6	3002.2	3068.4	3173.0	3235.8	3204.4	3166.1	3134.7	3124.2
27.5°	8490.5	6335.6	3288.1	2848.8	2967.3	3110.3	3089.3	3061.5	3078.9	3054.5	3026.6
30°	8507.9	5892.8	2967.3	2761.6	2894.1	2963.8	2988.2	2960.3	2981.3	2935.9	2949.9
32.5°	8417.2	5460.4	2758.1	2660.5	2806.9	2803.4	2883.6	2904.5	2855.7	2761.6	2775.5
35°	8455.6	5111.7	2580.3	2615.1	2709.3	2709.3	2772.0	2747.6	2618.6	2562.8	2576.8
37.5°	8720.6	4770.0	2493.1	2552.4	2615.1	2643.0	2622.1	2517.5	2486.1	2486.1	2493.1
40°	8971.7	4477.1	2440.8	2538.4	2528.0	2545.4	2392.0	2402.4	2402.4	2405.9	2388.5
42.5°	9194.8	4278.4	2399.0	2454.7	2472.2	2381.5	2287.4	2276.9	2301.3	2297.8	2283.9
45°	9275.0	4114.5	2339.7	2360.6	2374.5	2224.6	2179.3	2158.4	2186.3	2196.7	2210.7
47.5°	8968.2	3978.5	2273.4	2231.6	2203.7	2106.1	2046.8	2008.4	2043.3	2102.6	2116.5
50°	8574.2	3800.7	2168.8	2088.6	2029.3	1987.5	1945.7	1907.3	1931.7	1973.6	1963.1
52.5°	7991.9	3521.7	2036.3	1952.6	1851.5	1862.0	1823.6	1802.7	1816.6	1816.6	1806.2
55°	7162.0	2894.1	1813.2	1753.9	1670.2	1698.1	1705.1	1677.2	1649.3	1673.7	1652.8
57.5°	4888.6	2043.3	1617.9	1617.9	1534.2	1572.6	1569.1	1502.8	1436.6	1443.6	1429.6
60°	2827.8	1628.4	1492.4	1478.4	1391.3	1422.6	1429.6	1384.3	1283.2	1290.1	1276.2
62.5°	1607.4	1391.3	1304.1	1283.2	1265.7	1293.6	1293.6	1234.3	1147.2	1154.1	1140.2
65°	1366.8	1290.1	1164.6	1161.1	1154.1	1161.1	1133.2	1070.5	993.8	962.4	965.9
67.5°	1241.3	1192.5	1070.5	1039.1	1018.2	1014.7	962.4	903.1	868.2	840.3	836.8
70°	1087.9	1049.5	958.9	917.0	896.1	847.3	795.0	756.6	707.8	693.9	707.8
72.5°	861.3	857.8	822.9	777.6	732.2	693.9	648.6	596.3	550.9	540.5	516.1
75°	596.3	603.2	610.2	603.2	564.9	516.1	463.8	421.9	366.1	334.7	327.8
77.5°	390.5	401.0	411.4	397.5	373.1	327.8	292.9	240.6	198.8	174.3	170.9
80°	285.9	299.9	306.8	296.4	268.5	233.6	195.3	153.4	122.0	101.1	101.1
82.5°	219.7	233.6	240.6	223.2	195.3	167.4	139.5	108.1	83.7	66.3	62.8
85°	76.7	73.2	87.2	90.7	108.1	101.1	83.7	62.8	48.8	34.9	31.4
87.5°	20.9	20.9	24.4	24.4	20.9	17.4	17.4	17.4	13.9	10.5	10.5
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)