

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: P647097

Luminaire Tested: **GALN-SA8C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33160.1 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

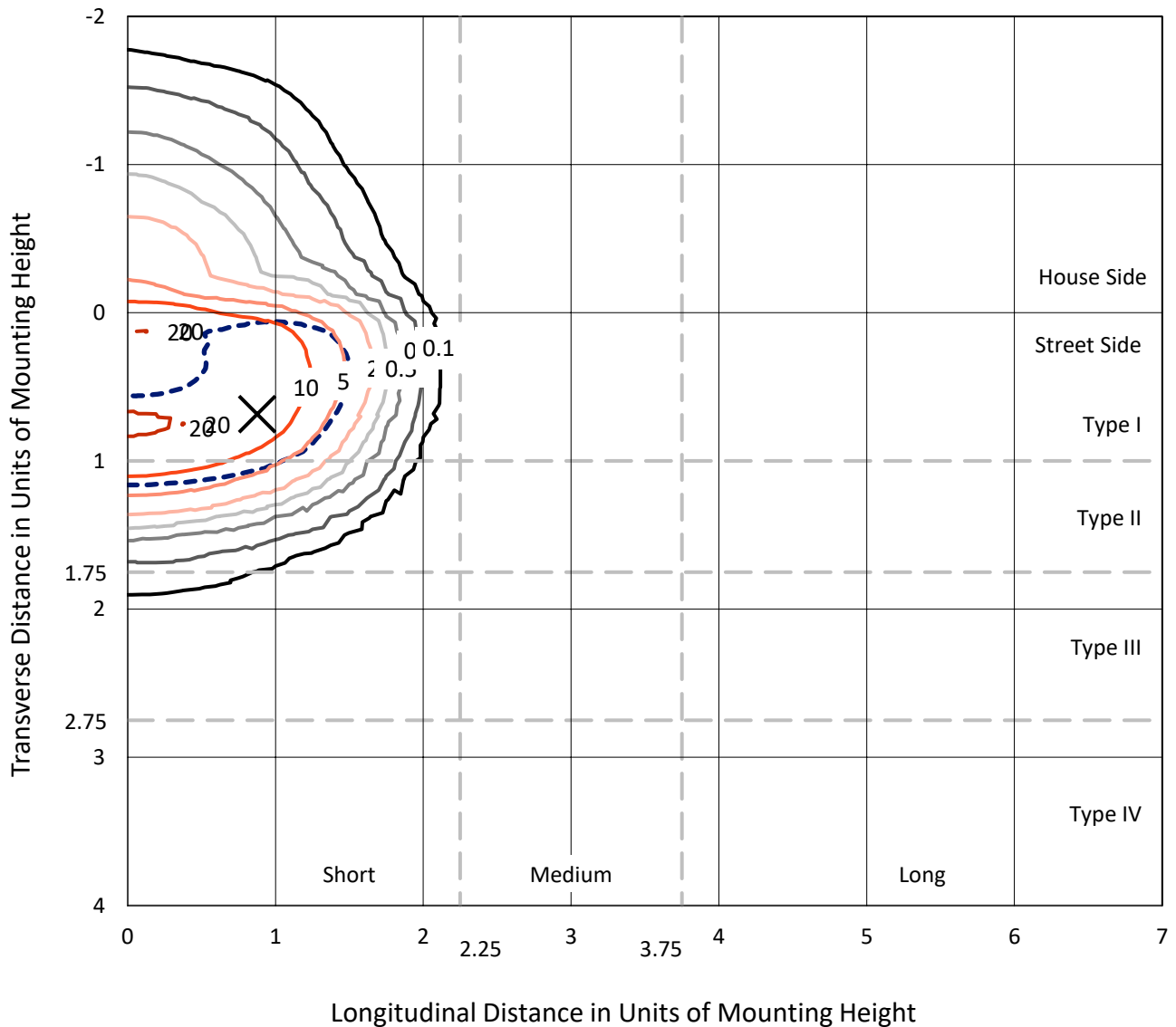
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

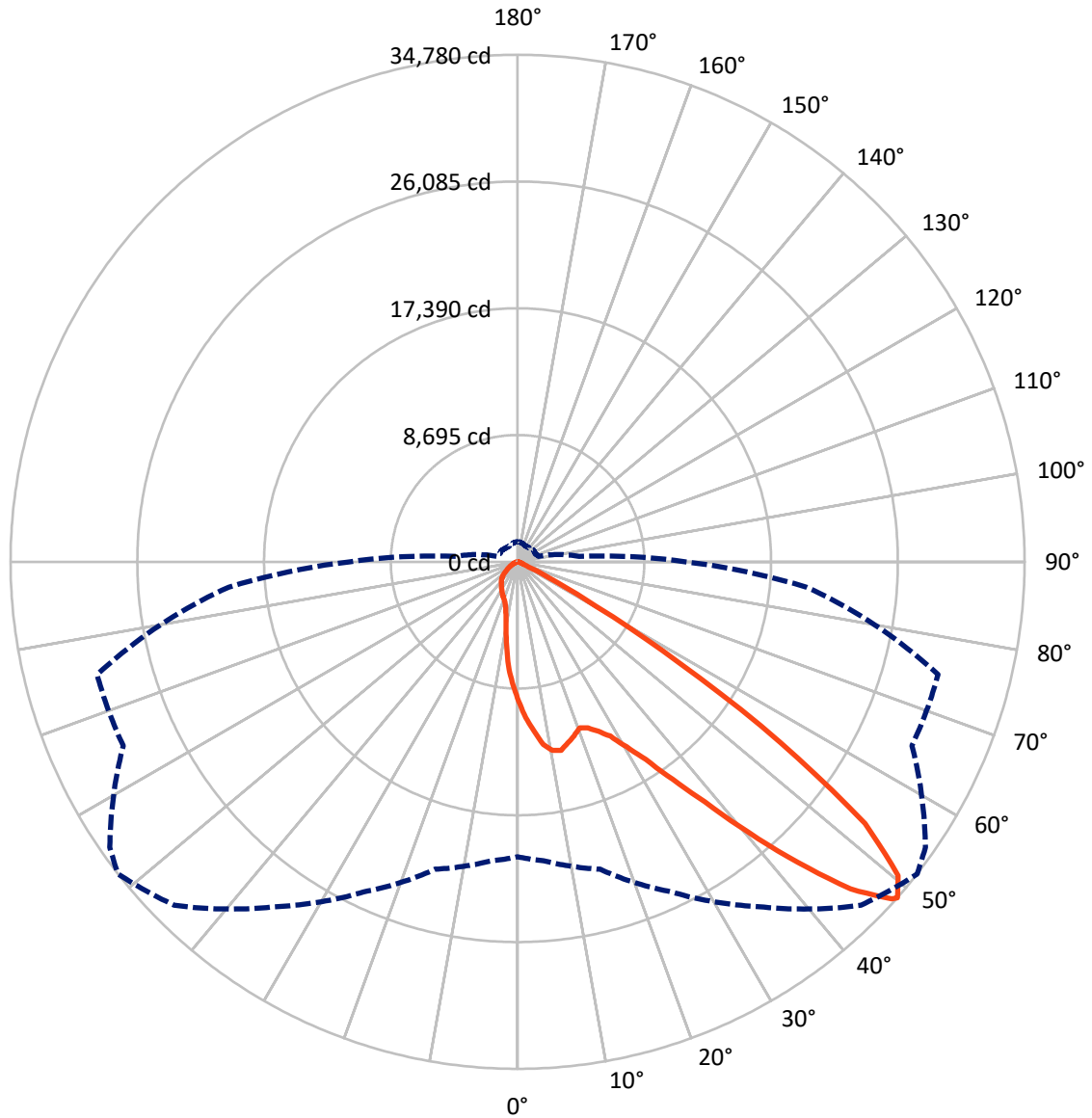
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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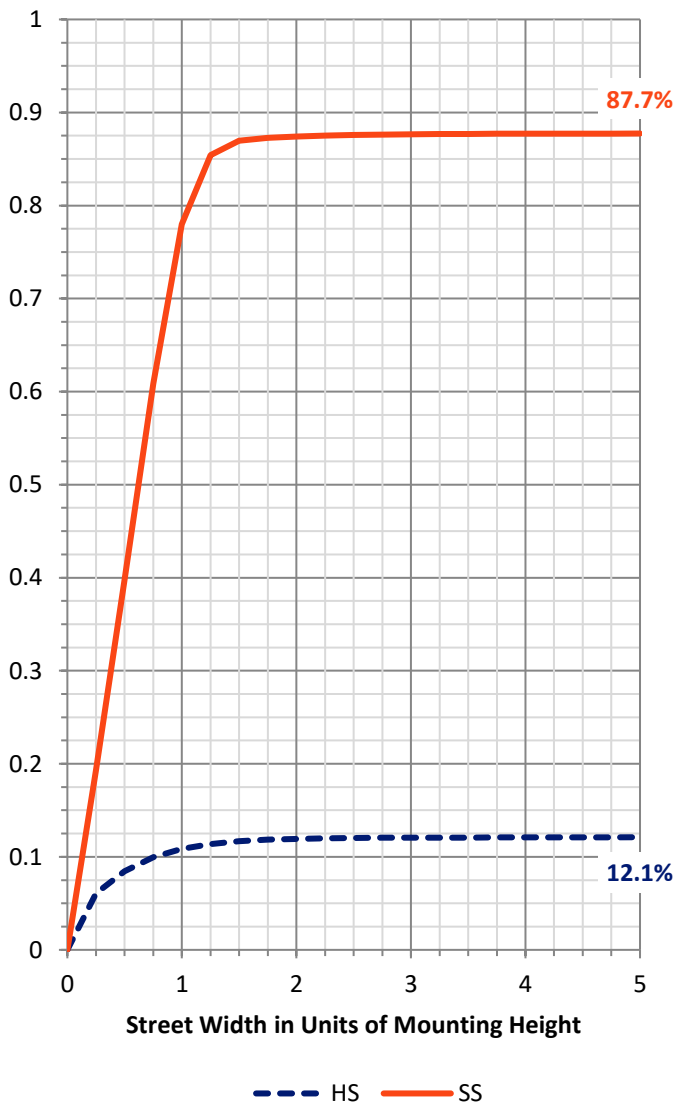
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4037.5	0.0	4037.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	29122.6	0.0	29122.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	33160.1	0.0	33160.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.5	2.6
10°-20°	2290.6	6.9
20°-30°	3910.9	11.8
30°-40°	7202.0	21.7
40°-50°	11184.7	33.7
50°-60°	6731.3	20.3
60°-70°	778.5	2.3
70°-80°	150.7	0.5
80°-90°	34.8	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°	33160.1	100.0
0°-180°	33160.1	100.0

Coefficient of Utilization

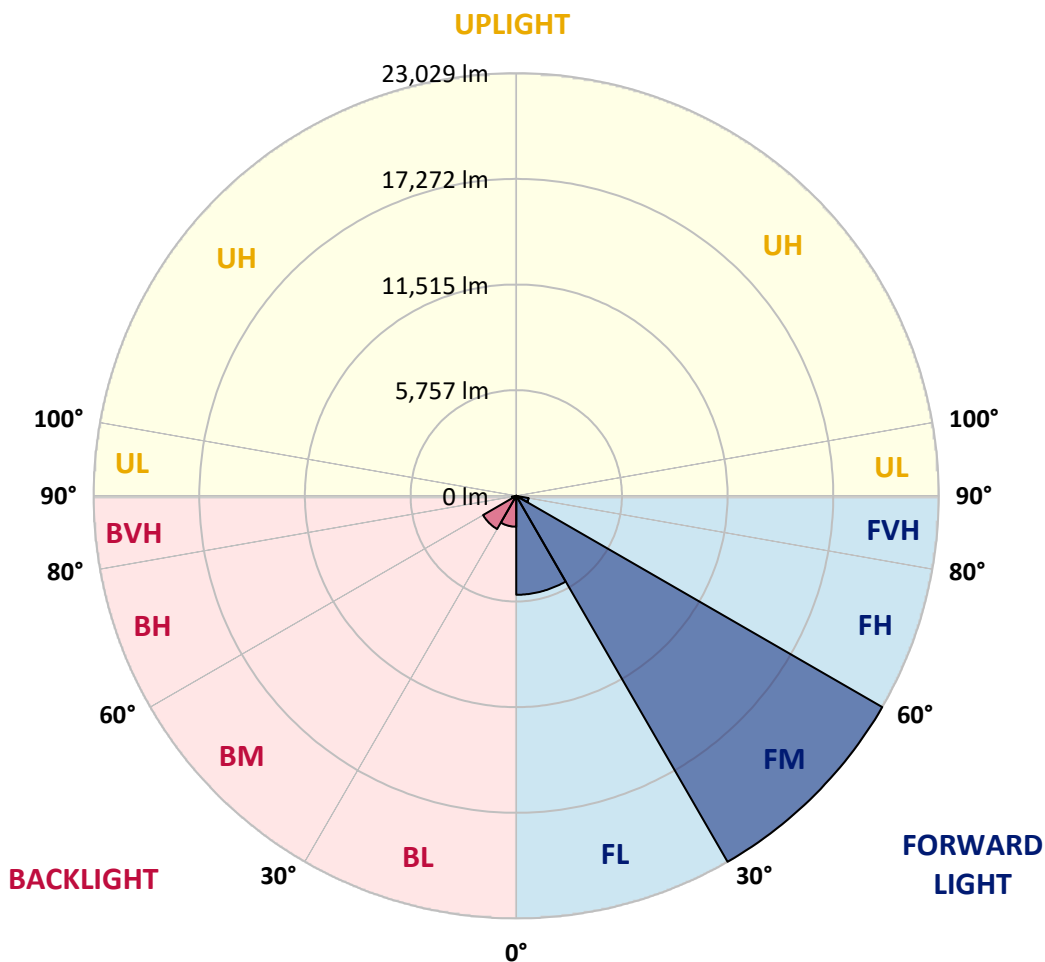


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5391.4	16.3			
FM (30°-60°)	23029.0	69.4			
FH (60°-80°)	685.6	2.1			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1686.6	5.1	B3/2500		
BM (30°-60°)	2089.0	6.3	B2/2500		
BH (60°-80°)	243.7	0.7	B1/500		G1/500
BVH (80°-90°)	18.3	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1
2.5°	11606.3	11340.5	11364.6	11190.6	11089.1	10924.7	10702.4	10658.9	10417.2	10088.5	9754.9
5°	12650.5	12587.7	12669.8	12418.5	12428.1	12157.4	11635.3	11645.0	11089.1	10552.6	10035.3
7.5°	12718.1	12573.1	12655.3	12877.7	13008.2	12959.8	12664.9	12408.7	11881.9	11093.9	10339.8
10°	11388.8	11664.4	11751.3	12118.7	12640.8	13191.9	13158.0	13172.6	12732.7	11703.0	10600.9
12.5°	10591.2	10407.5	10702.4	10924.7	11712.7	12781.0	13269.2	13375.6	13409.4	12292.8	10861.9
15°	10228.6	10228.6	10277.0	10339.8	10910.2	11896.4	12892.2	13201.5	13931.4	13066.2	11272.8
17.5°	10455.9	10446.2	10513.9	10383.4	10596.0	11355.0	12544.1	12897.0	14516.4	13825.1	11596.7
20°	11147.1	11180.9	11137.5	10760.4	10774.9	11345.3	12157.4	12713.3	14912.8	14482.5	12026.9
22.5°	12109.1	12128.4	11881.9	11471.0	11350.1	11630.5	12379.8	12805.2	15231.8	15270.5	12157.4
25°	13220.9	13143.5	13095.2	12515.1	12147.8	12389.4	12882.5	13129.0	15430.0	15947.2	12529.6
27.5°	14762.9	14608.2	14313.3	13796.1	13525.4	13182.2	13535.1	13941.2	15995.6	16894.7	12935.7
30°	17039.7	16904.3	16329.1	15662.0	14951.5	14613.1	14724.2	14946.6	17015.5	17992.0	13472.2
32.5°	20467.0	20181.7	19350.4	18079.0	17112.2	16179.3	16150.2	16387.1	17929.1	19509.9	14110.3
35°	24242.3	24155.3	22932.3	21622.3	19751.6	18311.0	18335.2	18460.9	19679.1	21501.4	14946.6
37.5°	26751.1	27229.7	26451.4	25044.7	23473.7	21414.4	20892.4	20935.9	22081.5	23860.4	16454.8
40°	28689.5	28283.5	28375.4	28046.6	26973.5	25571.6	24416.3	24189.1	24861.0	26470.7	17953.3
42.5°	27843.6	27862.9	28428.5	29206.8	29472.7	29371.1	28191.7	27761.4	27239.3	28607.4	19379.3
45°	25455.6	25953.6	26688.3	28747.5	30555.5	32252.2	32020.2	31304.7	28882.9	30299.3	20201.1
47.5°	21646.5	21627.2	22830.8	25508.8	29525.8	33499.3	34553.2	34050.4	30047.9	30110.7	20032.0
48°	20239.8	20587.8	21830.1	24981.9	28873.2	33315.6	34780.3	34147.1	29849.7	29859.4	19886.9
50°	14961.1	14898.3	16445.1	20312.3	25789.2	31304.7	33823.2	34316.3	29844.8	28588.0	18871.8
52.5°	7903.5	8174.2	9300.6	12771.4	18233.7	25620.0	29835.2	30603.8	28791.1	26509.4	17411.9
55°	3359.6	3035.7	3901.0	5766.9	10257.7	17117.1	21888.1	23599.4	24343.8	23459.2	15231.8
57.5°	1198.9	1310.0	1508.2	2170.5	4311.9	9368.2	13051.7	14381.0	16865.7	17213.7	10378.5
60°	768.6	783.1	846.0	995.8	1619.4	3611.0	6192.3	7251.0	8377.2	8647.9	4843.6
62.5°	594.6	599.4	628.4	652.6	768.6	1401.9	2325.1	2755.4	2861.7	2460.5	1271.4
65°	497.9	502.8	512.4	512.4	546.2	657.4	812.1	894.3	870.1	860.4	720.3
67.5°	381.9	391.6	410.9	410.9	430.3	401.2	449.5	478.6	541.4	657.4	614.0
70°	299.7	304.5	319.1	328.7	328.7	290.0	323.8	352.9	396.4	488.2	483.4
72.5°	232.0	241.7	251.3	251.3	236.9	198.2	232.0	256.2	285.2	338.4	328.7
75°	178.8	178.8	183.7	149.9	116.0	101.5	140.2	169.2	212.7	222.4	183.7
77.5°	48.3	53.2	48.3	43.5	48.3	72.5	91.8	106.3	135.4	135.4	120.8
80°	0.0	4.9	14.5	29.0	48.3	67.7	82.2	91.8	106.3	116.0	111.2
82.5°	0.0	4.9	14.5	29.0	43.5	53.2	72.5	77.4	87.0	101.5	101.5
85°	0.0	4.9	9.6	19.3	29.0	33.8	33.8	29.0	29.0	24.2	19.3
87.5°	0.0	0.0	4.9	9.6	9.6	14.5	14.5	14.5	14.5	14.5	14.5
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°	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1	9576.1
2.5°	9624.4	9474.5	9247.4	8889.6	8546.4	8324.1	8111.4	7874.6	7744.0	7734.3	7661.8
5°	9740.4	9402.0	8860.7	8246.7	7589.3	7023.7	6453.3	6081.1	5747.6	5563.9	5530.0
7.5°	9803.2	9363.3	8488.4	7458.8	6337.3	5414.1	4776.0	4307.0	4123.4	3988.1	3983.2
10°	9933.8	9295.7	7932.5	6414.6	5027.3	4094.4	3654.5	3441.8	3340.3	3301.6	3243.6
12.5°	10030.5	9170.0	7362.2	5341.5	3973.5	3393.4	3200.0	3151.7	3156.6	3175.9	3151.7
15°	10165.8	9058.8	6593.5	4384.4	3335.4	3055.0	3055.0	3064.7	3132.4	3142.1	3137.2
17.5°	10156.1	8841.3	5800.8	3611.0	2948.7	2910.0	2924.6	3016.4	3059.9	3074.4	3040.5
20°	10272.2	8638.3	4983.8	3084.1	2731.2	2789.2	2885.9	2910.0	2963.2	2972.9	2934.2
22.5°	10238.4	8130.8	4224.9	2668.3	2566.8	2678.0	2774.7	2803.7	2789.2	2760.2	2755.4
25°	10175.5	7695.6	3528.8	2392.8	2446.0	2566.8	2658.7	2605.5	2576.5	2581.3	2586.2
27.5°	10064.3	7144.6	2953.6	2199.4	2281.7	2460.5	2455.6	2436.3	2465.4	2441.2	2465.4
30°	10045.0	6593.5	2479.8	2025.5	2160.8	2291.3	2301.0	2334.8	2368.7	2325.1	2368.7
32.5°	10074.0	5989.2	2141.4	1919.1	2088.3	2093.1	2199.4	2233.3	2209.2	2112.5	2122.1
35°	10296.3	5525.2	1894.9	1861.1	1972.2	1977.1	2078.6	2035.1	1928.8	1870.7	1904.6
37.5°	10765.2	5138.5	1778.9	1807.9	1817.6	1880.4	1885.2	1798.2	1807.9	1803.1	1822.4
40°	11364.6	4843.6	1696.7	1759.6	1749.9	1793.4	1619.4	1667.7	1711.2	1725.7	1735.4
42.5°	11775.5	4630.9	1643.5	1682.2	1662.9	1585.6	1488.9	1537.2	1571.0	1624.2	1633.9
45°	11959.2	4461.8	1580.7	1546.9	1546.9	1406.7	1368.0	1377.7	1455.0	1513.0	1503.4
47.5°	11659.5	4297.4	1469.5	1368.0	1401.9	1285.8	1242.3	1242.3	1324.5	1397.0	1382.5
48°	11543.5	4229.7	1474.4	1329.4	1353.5	1266.5	1223.0	1213.3	1305.2	1372.8	1372.8
50°	10968.3	3978.3	1348.6	1223.0	1174.7	1164.9	1136.0	1145.7	1203.6	1266.5	1266.5
52.5°	9846.8	3437.0	1140.8	1049.0	962.0	1019.9	1034.5	1015.2	1044.1	1102.2	1097.3
55°	8217.7	2639.3	913.6	870.1	802.4	865.3	894.3	870.1	841.1	884.6	884.6
57.5°	5264.2	1421.1	729.9	739.6	671.9	734.8	759.0	700.9	647.8	681.6	676.7
60°	2373.5	850.8	599.4	584.9	541.4	614.0	652.6	584.9	512.4	536.6	560.7
62.5°	889.4	604.2	454.4	444.7	435.0	502.8	522.1	468.9	396.4	410.9	415.7
65°	652.6	531.7	362.5	328.7	348.0	396.4	386.7	333.6	285.2	285.2	294.9
67.5°	555.9	464.1	294.9	256.2	256.2	261.1	241.7	212.7	198.2	207.9	217.5
70°	435.0	367.4	232.0	198.2	178.8	159.5	140.2	135.4	120.8	135.4	130.5
72.5°	280.4	246.6	178.8	149.9	135.4	111.2	91.8	87.0	72.5	67.7	67.7
75°	149.9	149.9	140.2	120.8	106.3	87.0	72.5	58.0	38.7	29.0	29.0
77.5°	106.3	116.0	125.7	116.0	96.7	72.5	58.0	38.7	19.3	9.6	9.6
80°	101.5	116.0	125.7	111.2	96.7	72.5	53.2	29.0	14.5	4.9	4.9
82.5°	91.8	106.3	116.0	101.5	87.0	62.9	48.3	29.0	14.5	4.9	4.9
85°	19.3	24.2	29.0	29.0	33.8	43.5	33.8	24.2	9.6	4.9	4.9
87.5°	14.5	14.5	14.5	14.5	14.5	14.5	9.6	9.6	4.9	4.9	4.9
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)