

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: P647153

Luminaire Tested: **GALN-SA9C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647153
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-SA9C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 45031.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

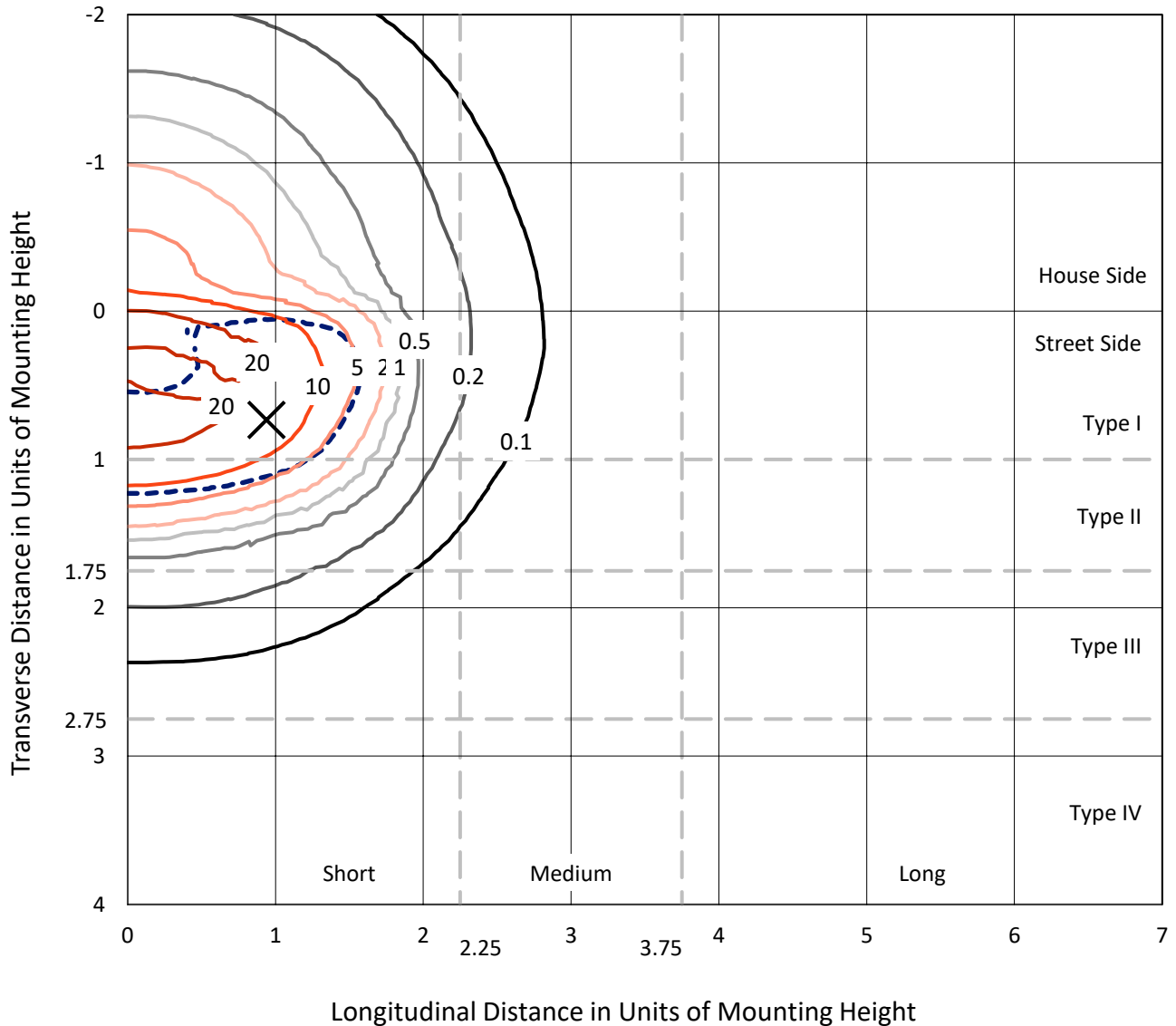
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

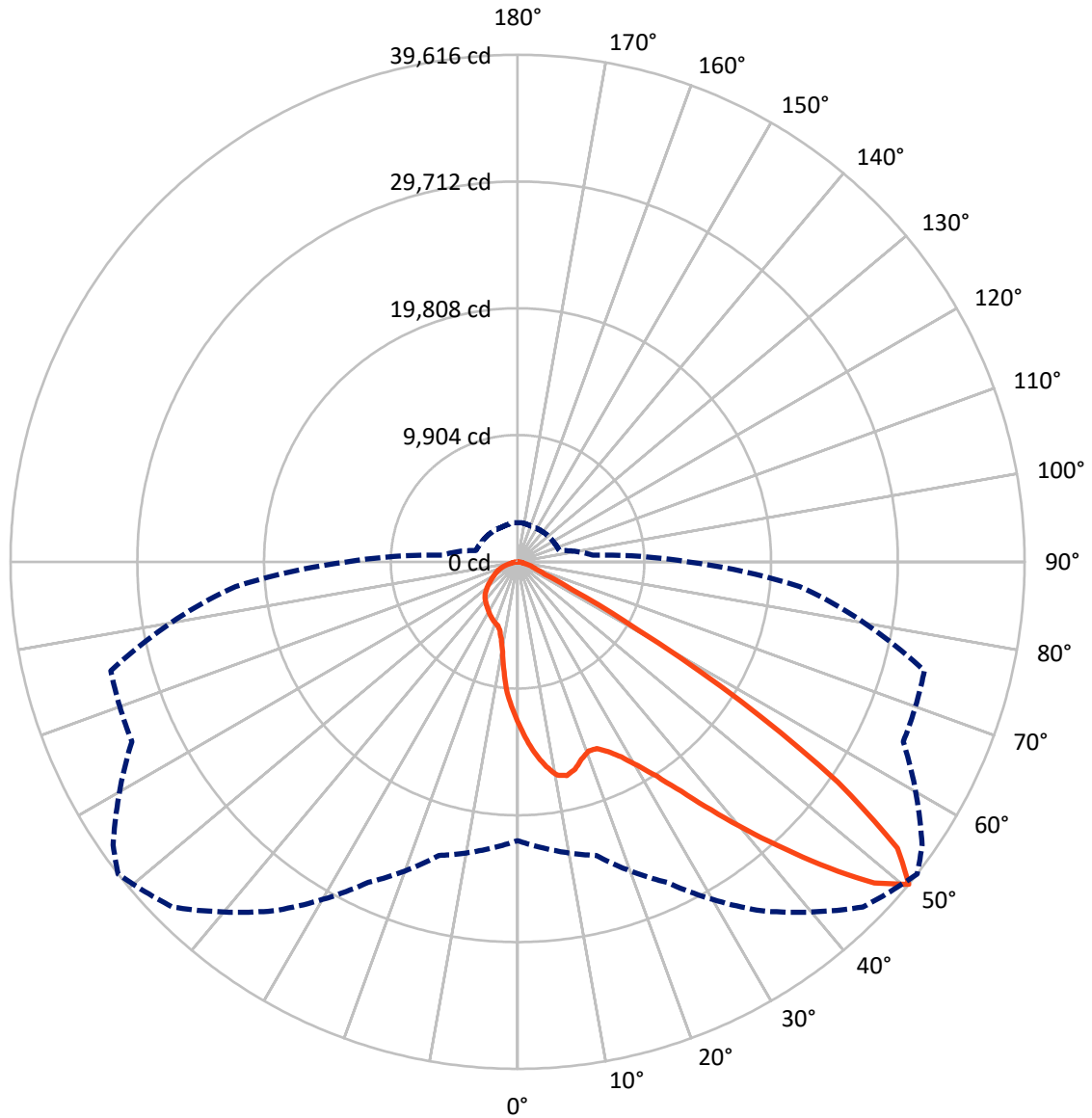
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 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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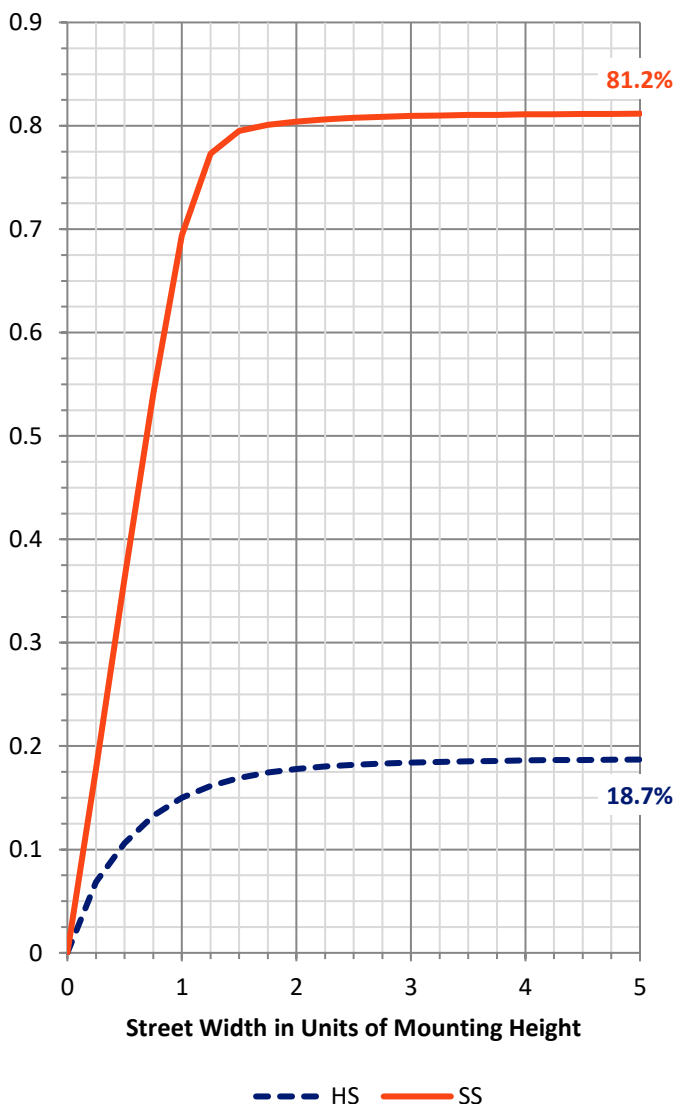
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8464.8	0.0	8464.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36566.3	0.0	36566.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	45031.1	0.0	45031.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1170.0	2.6
10°-20°	3135.8	7.0
20°-30°	5282.1	11.7
30°-40°	8863.8	19.7
40°-50°	13559.4	30.1
50°-60°	9885.9	22.0
60°-70°	2200.1	4.9
70°-80°	793.6	1.8
80°-90°	140.5	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°	45031.1	100.0
0°-180°	45031.1	100.0

Coefficient of Utilization



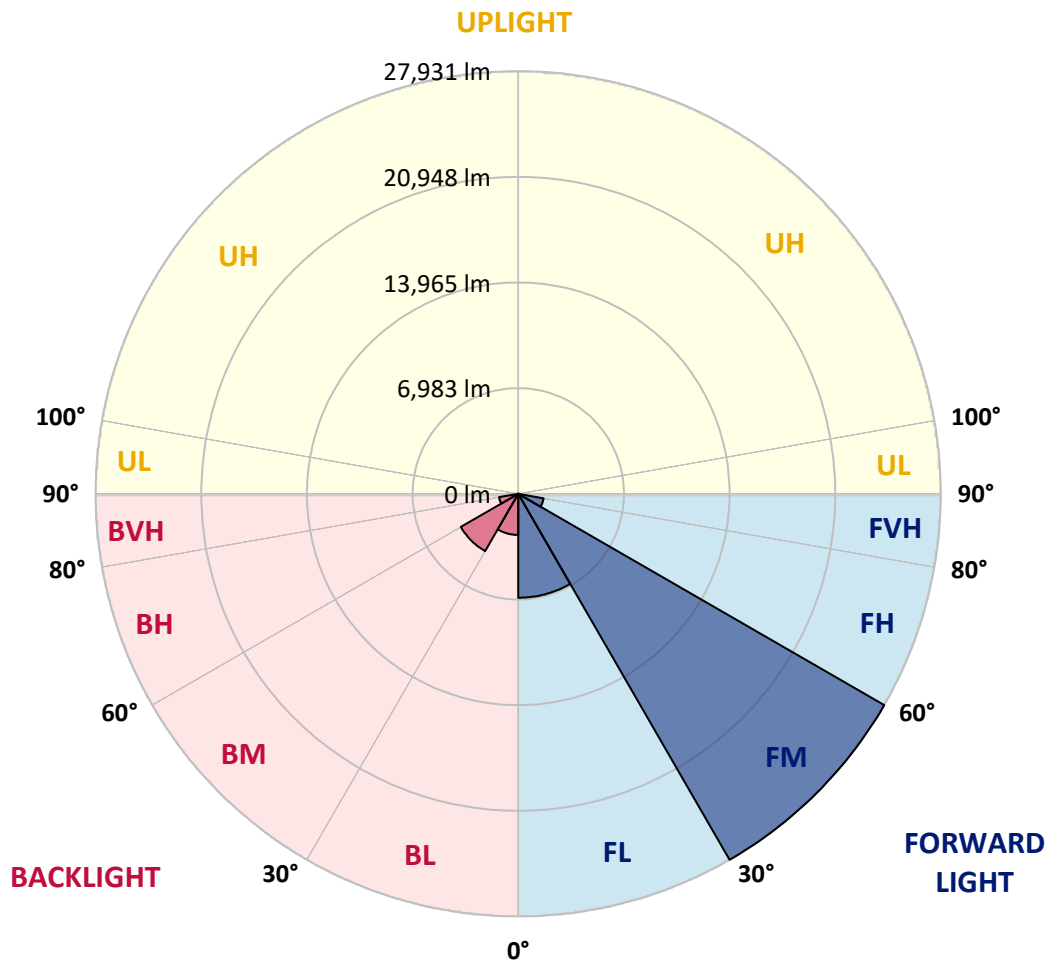
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6868.8	15.3			
FM (30°-60°)	27930.6	62.0			
FH (60°-80°)	1704.0	3.8			G1/1800
FVH (80°-90°)	63.0	0.1			G1/100
BL (0°-30°)	2719.1	6.0	B4/5000		
BM (30°-60°)	4378.6	9.7	B3/5000		
BH (60°-80°)	1289.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	77.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5
2.5°	14945.7	14658.1	14690.6	14484.4	14261.9	14196.8	13968.9	13751.8	13589.0	13241.6	12921.5
5°	16334.9	16248.1	16117.9	15955.1	15786.8	15374.4	15141.0	14869.7	14272.8	13735.5	13203.7
7.5°	16535.8	16519.5	16590.0	16590.0	16649.7	16492.3	16161.3	15971.4	15336.5	14462.7	13475.0
10°	15124.7	15173.6	15515.5	15960.5	16579.2	17007.9	16953.7	16904.8	16210.1	15016.2	13795.2
12.5°	14001.4	13892.8	14093.7	14473.5	15401.5	16438.1	17138.1	17143.6	16964.5	15900.9	14028.5
15°	13366.4	13442.5	13496.7	13675.8	14375.9	15575.2	16807.1	17170.7	17957.6	16524.9	14397.6
17.5°	13773.4	13518.4	13507.5	13551.0	13909.1	14810.1	16193.8	16818.0	18500.3	17328.1	14853.4
20°	14305.3	14299.9	14147.9	14093.7	14088.2	14891.4	15792.2	16638.9	18787.9	18370.0	15314.7
22.5°	15238.7	15238.7	14989.1	14869.7	14614.6	15271.3	15846.6	16421.8	19265.5	19086.4	15537.2
25°	16801.7	16546.6	16117.9	15824.8	15678.3	15911.7	16421.8	16937.4	19683.4	19846.2	15998.5
27.5°	18245.2	17843.6	17632.0	17127.3	16931.9	16796.3	17263.0	17784.0	20171.8	21029.3	16248.1
30°	19884.2	19813.7	19433.7	18782.5	18299.5	18049.9	18478.6	18994.2	21067.2	22239.5	16823.4
32.5°	22814.7	22174.3	21658.8	20861.0	20074.1	19542.3	19965.6	20307.5	22554.2	23503.9	17452.9
35°	25978.6	25772.4	24882.3	23444.2	22239.5	21761.8	22011.5	22266.6	24285.4	25435.9	18511.1
37.5°	29088.2	28806.0	28073.4	26863.2	25397.9	24426.5	24605.5	24904.0	26228.2	28040.8	19802.8
40°	31324.1	30976.7	30607.7	30428.6	28974.2	27644.7	27541.6	27617.5	28854.8	30482.9	21235.4
42.5°	31486.9	31915.6	32029.6	32751.3	32409.5	31318.7	30683.7	30700.0	31362.0	32897.9	22684.4
45°	31145.0	30748.8	31590.0	33559.9	34688.8	35198.9	34129.8	33994.1	32914.2	34298.0	23406.2
47.5°	27557.8	27666.4	29088.2	32203.2	35464.8	37744.1	37494.5	37044.0	33744.5	34249.2	23292.3
50°	21783.6	22440.2	23759.0	27639.2	33294.0	38145.7	39616.4	38574.4	33250.6	32903.3	22130.9
52.5°	14506.1	14777.5	15645.7	20654.8	26770.9	34097.2	37174.3	37413.1	32794.8	31139.6	20660.2
55°	6458.0	6436.3	7657.3	10788.6	16796.3	25946.0	30374.4	31828.8	31041.9	29343.2	19227.5
57.5°	2735.2	2827.4	3326.7	4661.7	8259.7	15656.6	20578.8	21854.2	23873.0	24095.4	14750.3
60°	1850.5	1861.4	1997.1	2333.6	3456.9	7353.5	10794.1	12324.5	13768.0	13670.4	7825.6
62.5°	1454.4	1492.4	1595.5	1731.2	2051.4	3337.5	4829.9	5682.0	5774.2	4857.1	2968.5
65°	1242.8	1248.2	1351.3	1465.2	1606.3	1942.9	2328.2	2371.6	2398.7	2311.9	2181.6
67.5°	1025.7	1036.5	1118.0	1248.2	1378.5	1487.0	1595.5	1649.8	1774.6	2018.8	1986.2
70°	814.0	830.3	900.8	1009.4	1128.8	1193.9	1329.6	1378.5	1492.4	1682.4	1758.3
72.5°	618.6	624.1	683.8	759.7	868.3	933.4	1047.4	1101.7	1177.6	1340.4	1411.0
75°	445.0	461.3	504.7	542.7	559.0	602.4	710.9	770.6	879.2	949.7	955.1
77.5°	233.3	244.2	255.1	255.1	309.4	390.7	461.3	493.8	569.8	624.1	597.0
80°	92.2	97.7	124.8	168.3	217.0	282.2	331.1	347.3	412.4	445.0	461.3
82.5°	54.3	59.7	81.4	119.4	157.4	200.8	238.8	255.1	298.5	336.5	347.3
85°	27.2	32.6	48.9	76.0	103.1	124.8	119.4	113.9	113.9	108.5	113.9
87.5°	10.9	10.9	16.3	16.3	16.3	21.7	27.2	27.2	27.2	32.6	32.6
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°	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5	12693.5
2.5°	12709.8	12492.8	12291.9	11922.9	11521.3	11407.4	10940.6	10772.4	10653.0	10511.9	10468.5
5°	12775.0	12487.3	11841.5	11098.0	10506.5	9746.7	9247.5	8710.2	8319.5	8221.7	8194.6
7.5°	12910.6	12416.7	11304.2	10180.9	8970.7	7939.5	7152.6	6729.3	6354.9	6333.2	6295.2
10°	13062.6	12205.1	10718.1	8954.4	7407.7	6452.6	5980.5	5795.9	5703.7	5682.0	5671.1
12.5°	13187.4	12161.7	10061.5	7760.5	6300.6	5725.4	5584.3	5568.0	5606.0	5616.9	5638.5
15°	13241.6	11988.0	9269.2	6691.4	5611.4	5399.8	5459.5	5524.6	5551.7	5622.3	5568.0
17.5°	13344.7	11765.5	8292.3	5844.8	5226.1	5264.1	5367.2	5443.2	5486.6	5535.4	5464.9
20°	13399.0	11564.8	7375.2	5340.1	5090.4	5161.0	5302.1	5361.7	5416.0	5437.8	5356.3
22.5°	13350.2	11152.3	6566.6	4933.1	4960.2	5052.5	5177.3	5242.4	5209.8	5123.0	5074.2
25°	13219.9	10571.6	5725.4	4672.6	4775.7	4938.5	5036.2	4987.3	4927.7	4878.8	4862.5
27.5°	13214.5	9860.7	5117.5	4433.8	4618.3	4840.8	4808.2	4764.8	4792.0	4754.0	4710.5
30°	13241.6	9171.4	4618.3	4298.1	4504.4	4612.9	4650.9	4607.4	4640.0	4569.4	4591.1
32.5°	13100.5	8498.5	4292.6	4140.7	4368.7	4363.3	4488.1	4520.6	4444.6	4298.1	4319.8
35°	13160.3	7955.8	4015.9	4070.2	4216.7	4216.7	4314.4	4276.4	4075.6	3988.8	4010.4
37.5°	13572.7	7424.0	3880.2	3972.5	4070.2	4113.6	4081.0	3918.2	3869.4	3869.4	3880.2
40°	13963.4	6968.2	3798.8	3950.8	3934.5	3961.7	3722.9	3739.1	3739.1	3744.5	3717.4
42.5°	14310.7	6658.8	3733.7	3820.6	3847.7	3706.6	3560.1	3543.8	3581.8	3576.4	3554.6
45°	14435.5	6403.8	3641.4	3674.0	3695.7	3462.3	3391.8	3359.2	3402.7	3419.0	3440.7
47.5°	13958.0	6192.1	3538.4	3473.2	3429.8	3277.9	3185.6	3125.9	3180.2	3272.4	3294.2
50°	13344.7	5915.3	3375.5	3250.7	3158.5	3093.3	3028.2	2968.5	3006.5	3071.6	3055.3
52.5°	12438.4	5481.2	3169.3	3039.1	2881.7	2898.0	2838.3	2805.7	2827.4	2827.4	2811.1
55°	11146.9	4504.4	2822.0	2729.7	2599.5	2642.9	2653.7	2610.4	2566.9	2604.9	2572.4
57.5°	7608.5	3180.2	2518.0	2518.0	2387.8	2447.5	2442.1	2339.0	2235.9	2246.7	2225.1
60°	4401.2	2534.3	2322.7	2301.0	2165.3	2214.2	2225.1	2154.5	1997.1	2007.9	1986.2
62.5°	2501.8	2165.3	2029.7	1997.1	1969.9	2013.4	2013.4	1921.1	1785.5	1796.3	1774.6
65°	2127.3	2007.9	1812.6	1807.2	1796.3	1807.2	1763.7	1666.1	1546.7	1497.8	1503.3
67.5°	1932.0	1856.0	1666.1	1617.2	1584.6	1579.2	1497.8	1405.6	1351.3	1307.8	1302.4
70°	1693.2	1633.5	1492.4	1427.3	1394.7	1318.7	1237.3	1177.6	1101.7	1080.0	1101.7
72.5°	1340.4	1335.0	1280.8	1210.2	1139.7	1080.0	1009.4	928.0	857.5	841.2	803.2
75°	928.0	938.8	949.7	938.8	879.2	803.2	721.8	656.6	569.8	521.0	510.1
77.5°	607.8	624.1	640.3	618.6	580.7	510.1	455.9	374.4	309.4	271.3	265.9
80°	445.0	466.7	477.6	461.3	417.9	363.6	303.9	238.8	190.0	157.4	157.4
82.5°	341.9	363.6	374.4	347.3	303.9	260.5	217.0	168.3	130.2	103.1	97.7
85°	119.4	113.9	135.7	141.1	168.3	157.4	130.2	97.7	76.0	54.3	48.9
87.5°	32.6	32.6	38.0	38.0	32.6	27.2	27.2	27.2	21.7	16.3	16.3
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)