

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: P533090

Luminaire Tested: **GALN-SA8C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533090
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-SA8C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 46653 lumens
Efficiency: N/A
Efficacy: 108.7 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

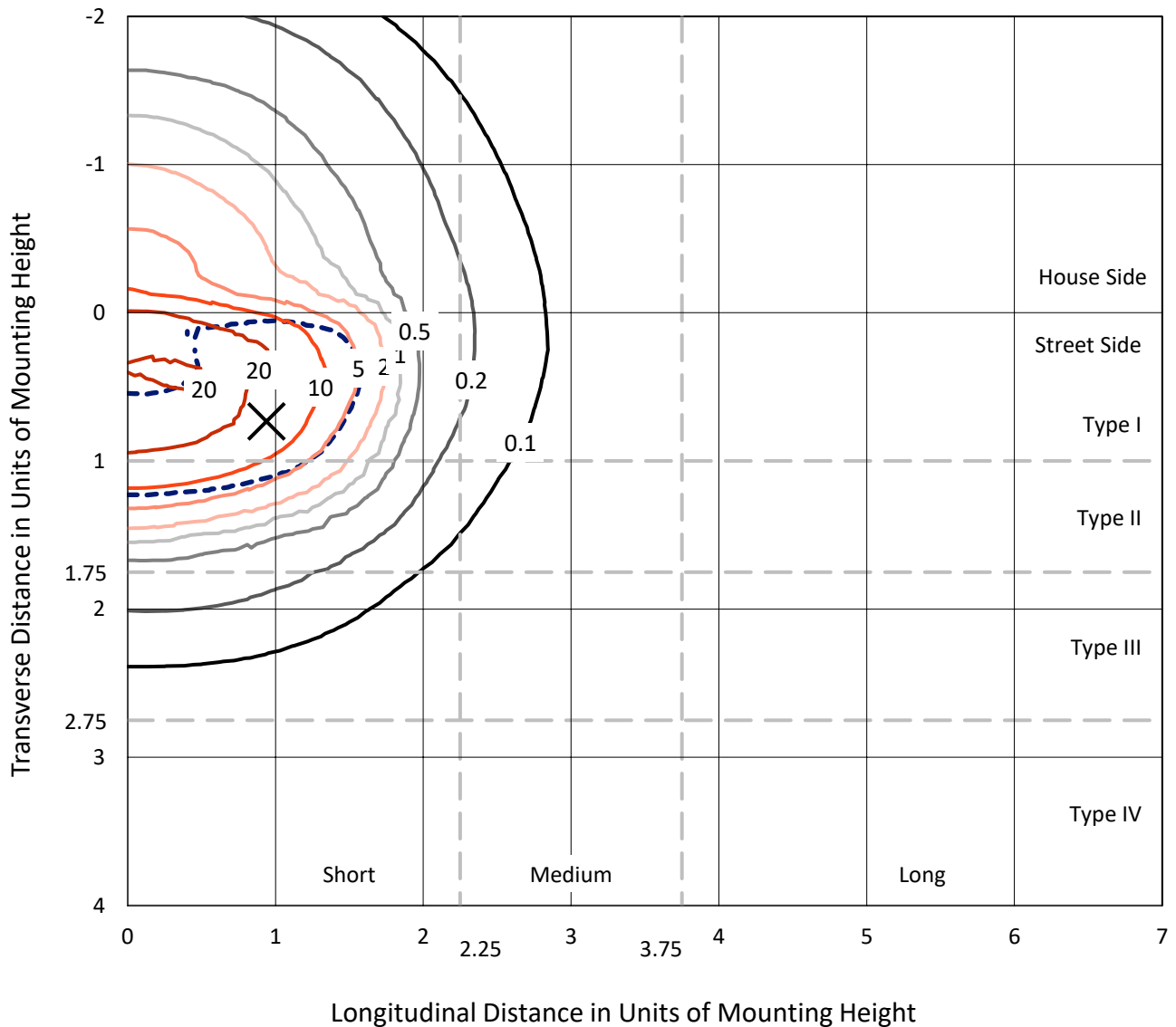
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

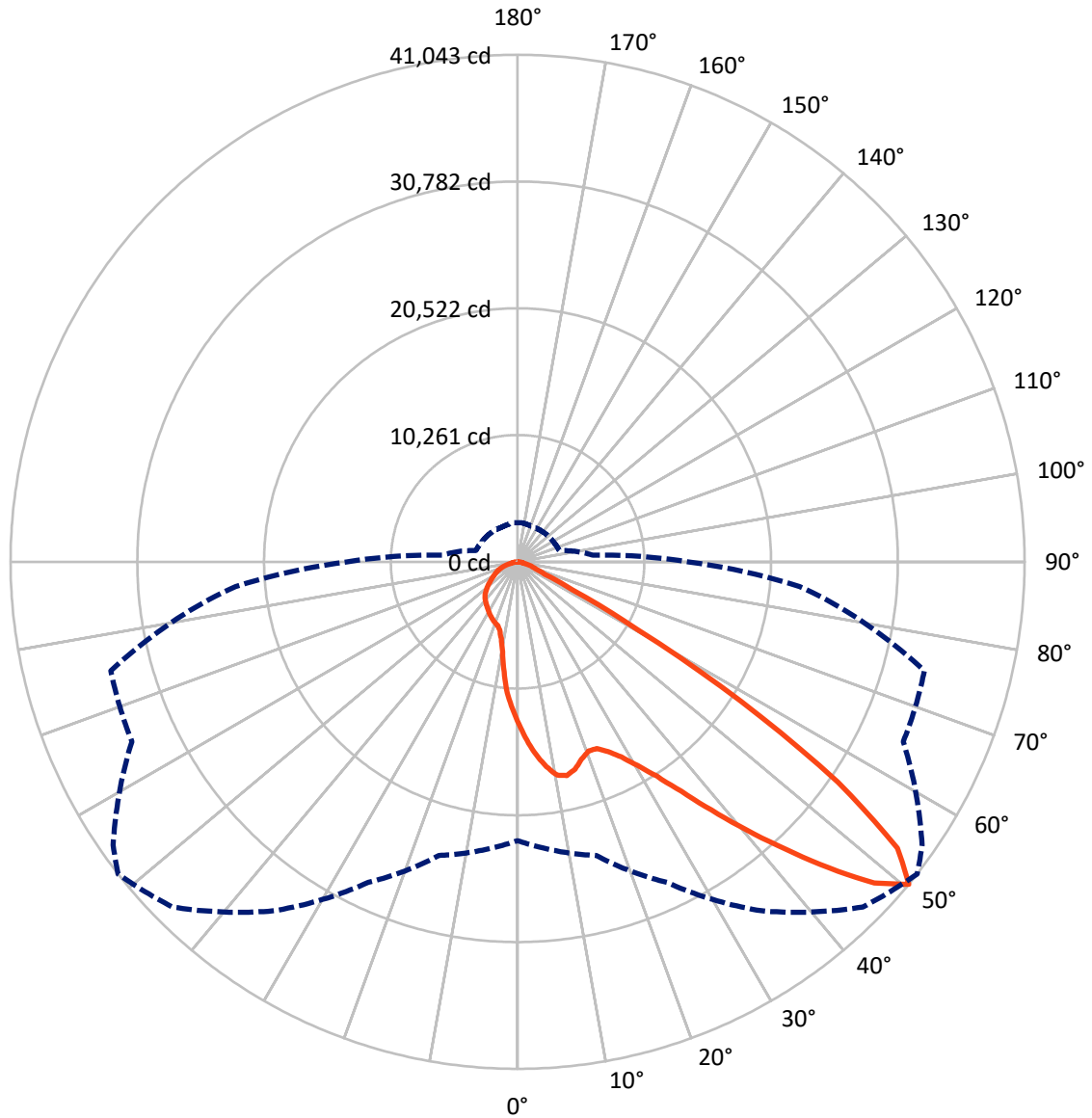
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 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	8769.7	0.0	8769.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37883.3	0.0	37883.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	46653.0	0.0	46653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.1	2.6
10°-20°	3248.7	7.0
20°-30°	5472.3	11.7
30°-40°	9183.0	19.7
40°-50°	14047.8	30.1
50°-60°	10242.0	22.0
60°-70°	2279.3	4.9
70°-80°	822.1	1.8
80°-90°	145.5	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°	46653.0	100.0
0°-180°	46653.0	100.0

Coefficient of Utilization

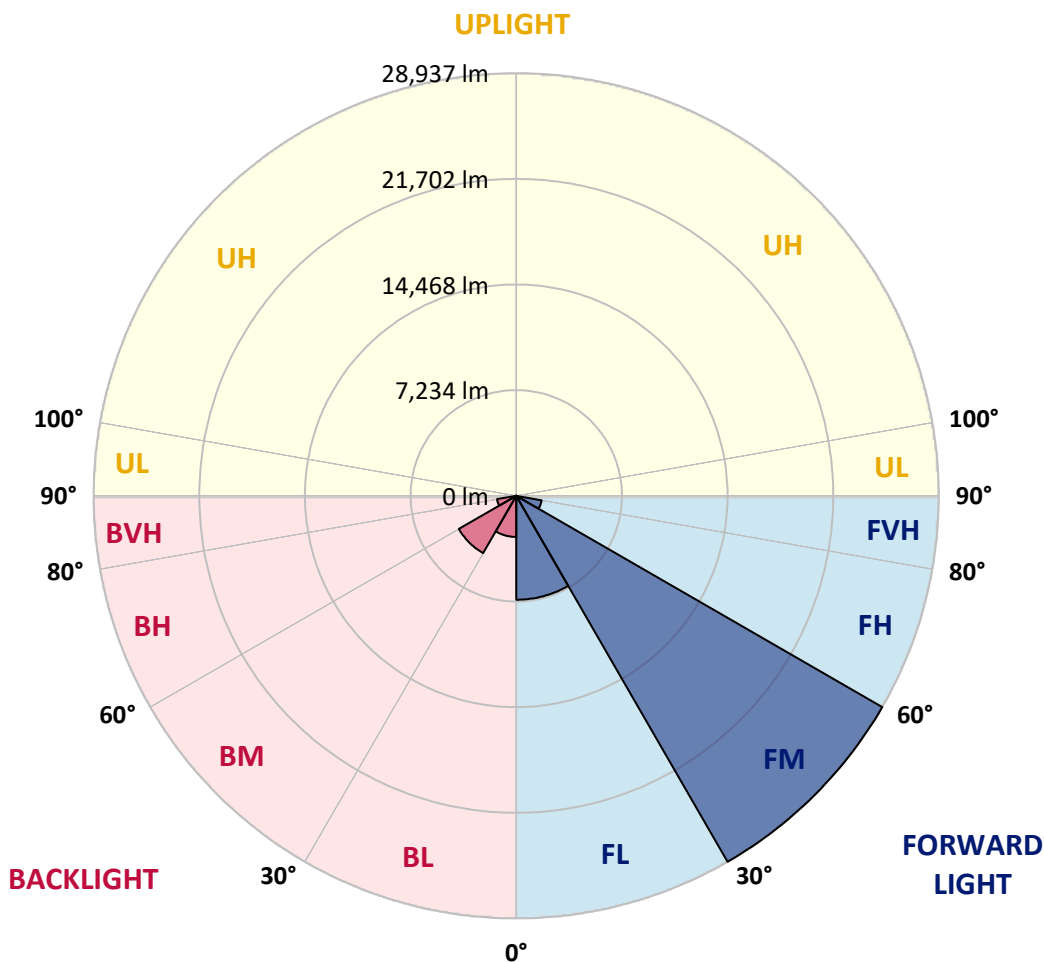


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7116.2	15.3			
FM (30°-60°)	28936.6	62.0			
FH (60°-80°)	1765.4	3.8			G1/1800
FVH (80°-90°)	65.2	0.1			G1/100
BL (0°-30°)	2817.0	6.0	B4/5000		
BM (30°-60°)	4536.3	9.7	B3/5000		
BH (60°-80°)	1336.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	80.3	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°	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7
2.5°	15484.0	15186.0	15219.7	15006.1	14775.6	14708.1	14472.0	14247.1	14078.4	13718.6	13386.8
5°	16923.3	16833.4	16698.4	16529.7	16355.5	15928.2	15686.4	15405.3	14786.8	14230.2	13679.2
7.5°	17131.3	17114.5	17187.6	17187.6	17249.4	17086.4	16743.4	16546.6	15888.8	14983.6	13960.3
10°	15669.5	15720.1	16074.3	16535.4	17176.3	17620.5	17564.3	17513.7	16794.0	15557.1	14292.0
12.5°	14505.7	14393.2	14601.3	14994.8	15956.3	17030.1	17755.4	17761.0	17575.5	16473.5	14533.8
15°	13847.9	13926.6	13982.8	14168.4	14893.6	16136.2	17412.5	17789.2	18604.4	17120.1	14916.1
17.5°	14269.6	14005.3	13994.1	14039.0	14410.1	15343.4	16777.1	17423.7	19166.6	17952.2	15388.4
20°	14820.5	14814.9	14657.5	14601.3	14595.7	15427.8	16361.1	17238.2	19464.6	19031.7	15866.3
22.5°	15787.6	15787.6	15529.0	15405.3	15141.0	15821.3	16417.3	17013.3	19959.4	19773.9	16096.8
25°	17406.8	17142.6	16698.4	16394.8	16243.0	16484.8	17013.3	17547.4	20392.3	20561.0	16574.7
27.5°	18902.4	18486.3	18267.1	17744.2	17541.8	17401.2	17884.7	18424.5	20898.3	21786.7	16833.4
30°	20600.3	20527.2	20133.7	19459.0	18958.6	18700.0	19144.1	19678.3	21826.0	23040.4	17429.3
32.5°	23636.4	22973.0	22438.9	21612.4	20797.1	20246.1	20684.7	21038.9	23366.5	24350.5	18081.5
35°	26914.3	26700.6	25778.5	24288.6	23040.4	22545.7	22804.3	23068.6	25160.1	26352.0	19177.9
37.5°	30135.9	29843.5	29084.5	27830.7	26312.7	25306.3	25491.8	25801.0	27172.9	29050.8	20516.0
40°	32452.3	32092.4	31710.1	31524.6	30017.8	28640.3	28533.5	28612.2	29894.1	31580.8	22000.3
42.5°	32621.0	33065.1	33183.2	33931.0	33576.8	32446.7	31788.8	31805.7	32491.6	34082.8	23501.5
45°	32266.7	31856.3	32727.8	34768.7	35938.1	36466.6	35359.0	35218.5	34099.6	35533.3	24249.3
47.5°	28550.4	28662.8	30135.9	33363.1	36742.1	39103.5	38844.9	38378.3	34959.9	35482.7	24131.2
50°	22568.2	23248.5	24614.7	28634.7	34493.2	39519.6	41043.3	39963.8	34448.2	34088.4	22928.0
52.5°	15028.6	15309.7	16209.3	21398.7	27735.1	35325.3	38513.2	38760.6	33975.9	32261.1	21404.3
55°	6690.6	6668.1	7933.2	11177.3	17401.2	26880.5	31468.4	32975.2	32159.9	30400.1	19920.0
57.5°	2833.7	2929.3	3446.5	4829.6	8557.2	16220.5	21320.0	22641.3	24732.8	24963.3	15281.6
60°	1917.2	1928.5	2069.0	2417.6	3581.4	7618.3	11182.9	12768.4	14263.9	14162.7	8107.4
62.5°	1506.8	1546.1	1653.0	1793.5	2125.3	3457.8	5003.9	5886.6	5982.2	5032.0	3075.4
65°	1287.5	1293.1	1400.0	1518.0	1664.2	2012.8	2412.0	2457.0	2485.1	2395.1	2260.2
67.5°	1062.6	1073.9	1158.2	1293.1	1428.1	1540.5	1653.0	1709.2	1838.5	2091.5	2057.8
70°	843.4	860.2	933.3	1045.8	1169.5	1236.9	1377.5	1428.1	1546.1	1742.9	1821.6
72.5°	640.9	646.6	708.4	787.1	899.6	967.0	1085.1	1141.3	1220.1	1388.7	1461.8
75°	461.0	477.9	522.9	562.2	579.1	624.1	736.5	798.4	910.8	983.9	989.5
77.5°	241.8	253.0	264.3	264.3	320.5	404.8	477.9	511.6	590.3	646.6	618.5
80°	95.6	101.2	129.3	174.3	224.9	292.4	343.0	359.8	427.3	461.0	477.9
82.5°	56.2	61.8	84.3	123.7	163.0	208.0	247.4	264.3	309.2	348.6	359.8
85°	28.1	33.7	50.6	78.7	106.8	129.3	123.7	118.1	118.1	112.4	118.1
87.5°	11.2	11.2	16.9	16.9	16.9	22.5	28.1	28.1	28.1	33.7	33.7
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°	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7	13150.7
2.5°	13167.6	12942.7	12734.7	12352.3	11936.3	11818.2	11334.7	11160.4	11036.7	10890.5	10845.5
5°	13235.0	12937.1	12268.0	11497.7	10884.9	10097.8	9580.5	9023.9	8619.1	8517.9	8489.8
7.5°	13375.6	12864.0	11711.4	10547.6	9293.8	8225.5	7410.3	6971.7	6583.8	6561.3	6521.9
10°	13533.0	12644.7	11104.2	9276.9	7674.5	6685.0	6195.8	6004.7	5909.1	5886.6	5875.4
12.5°	13662.3	12599.7	10423.9	8040.0	6527.6	5931.6	5785.4	5768.5	5807.9	5819.1	5841.6
15°	13718.6	12419.8	9603.0	6932.4	5813.5	5594.3	5656.1	5723.6	5751.7	5824.8	5768.5
17.5°	13825.4	12189.3	8591.0	6055.3	5414.3	5453.7	5560.5	5639.2	5684.2	5734.8	5661.7
20°	13881.6	11981.3	7640.8	5532.4	5273.8	5346.9	5493.0	5554.9	5611.1	5633.6	5549.3
22.5°	13831.0	11554.0	6803.1	5110.7	5138.8	5234.4	5363.7	5431.2	5397.5	5307.5	5256.9
25°	13696.1	10952.4	5931.6	4840.9	4947.7	5116.4	5217.6	5167.0	5105.1	5054.5	5037.6
27.5°	13690.5	10215.8	5301.9	4593.5	4784.6	5015.1	4981.4	4936.4	4964.5	4925.2	4880.2
30°	13718.6	9501.8	4784.6	4452.9	4666.6	4779.0	4818.4	4773.4	4807.1	4734.0	4756.5
32.5°	13572.4	8804.6	4447.3	4289.9	4526.0	4520.4	4649.7	4683.4	4604.7	4452.9	4475.4
35°	13634.2	8242.4	4160.5	4216.8	4368.6	4368.6	4469.8	4430.4	4222.4	4132.4	4154.9
37.5°	14061.5	7691.4	4020.0	4115.6	4216.8	4261.8	4228.0	4059.3	4008.7	4008.7	4020.0
40°	14466.3	7219.1	3935.7	4093.1	4076.2	4104.3	3856.9	3873.8	3873.8	3879.4	3851.3
42.5°	14826.2	6898.6	3868.2	3958.1	3986.3	3840.1	3688.3	3671.4	3710.8	3705.1	3682.6
45°	14955.5	6634.4	3772.6	3806.3	3828.8	3587.1	3514.0	3480.2	3525.2	3542.1	3564.6
47.5°	14460.7	6415.1	3665.8	3598.3	3553.3	3395.9	3300.3	3238.5	3294.7	3390.3	3412.8
50°	13825.4	6128.4	3497.1	3367.8	3272.2	3204.7	3137.3	3075.4	3114.8	3182.3	3165.4
52.5°	12886.5	5678.6	3283.5	3148.5	2985.5	3002.3	2940.5	2906.8	2929.3	2929.3	2912.4
55°	11548.3	4666.6	2923.6	2828.0	2693.1	2738.1	2749.3	2704.4	2659.4	2698.7	2665.0
57.5°	7882.6	3294.7	2608.8	2608.8	2473.8	2535.7	2530.1	2423.2	2316.4	2327.7	2305.2
60°	4559.7	2625.6	2406.4	2383.9	2243.3	2293.9	2305.2	2232.1	2069.0	2080.3	2057.8
62.5°	2591.9	2243.3	2102.8	2069.0	2040.9	2085.9	2085.9	1990.3	1849.8	1861.0	1838.5
65°	2204.0	2080.3	1877.9	1872.2	1861.0	1872.2	1827.3	1726.1	1602.4	1551.8	1557.4
67.5°	2001.6	1922.8	1726.1	1675.5	1641.7	1636.1	1551.8	1456.2	1400.0	1355.0	1349.4
70°	1754.2	1692.3	1546.1	1478.7	1444.9	1366.2	1281.9	1220.1	1141.3	1118.9	1141.3
72.5°	1388.7	1383.1	1326.9	1253.8	1180.7	1118.9	1045.8	961.4	888.3	871.5	832.1
75°	961.4	972.7	983.9	972.7	910.8	832.1	747.8	680.3	590.3	539.7	528.5
77.5°	629.7	646.6	663.4	640.9	601.6	528.5	472.3	387.9	320.5	281.1	275.5
80°	461.0	483.5	494.8	477.9	432.9	376.7	314.9	247.4	196.8	163.0	163.0
82.5°	354.2	376.7	387.9	359.8	314.9	269.9	224.9	174.3	134.9	106.8	101.2
85°	123.7	118.1	140.6	146.2	174.3	163.0	134.9	101.2	78.7	56.2	50.6
87.5°	33.7	33.7	39.4	39.4	33.7	28.1	28.1	28.1	22.5	16.9	16.9
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)