

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: P533089

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533089
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-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 38568 lumens
Efficiency: N/A
Efficacy: 89.9 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

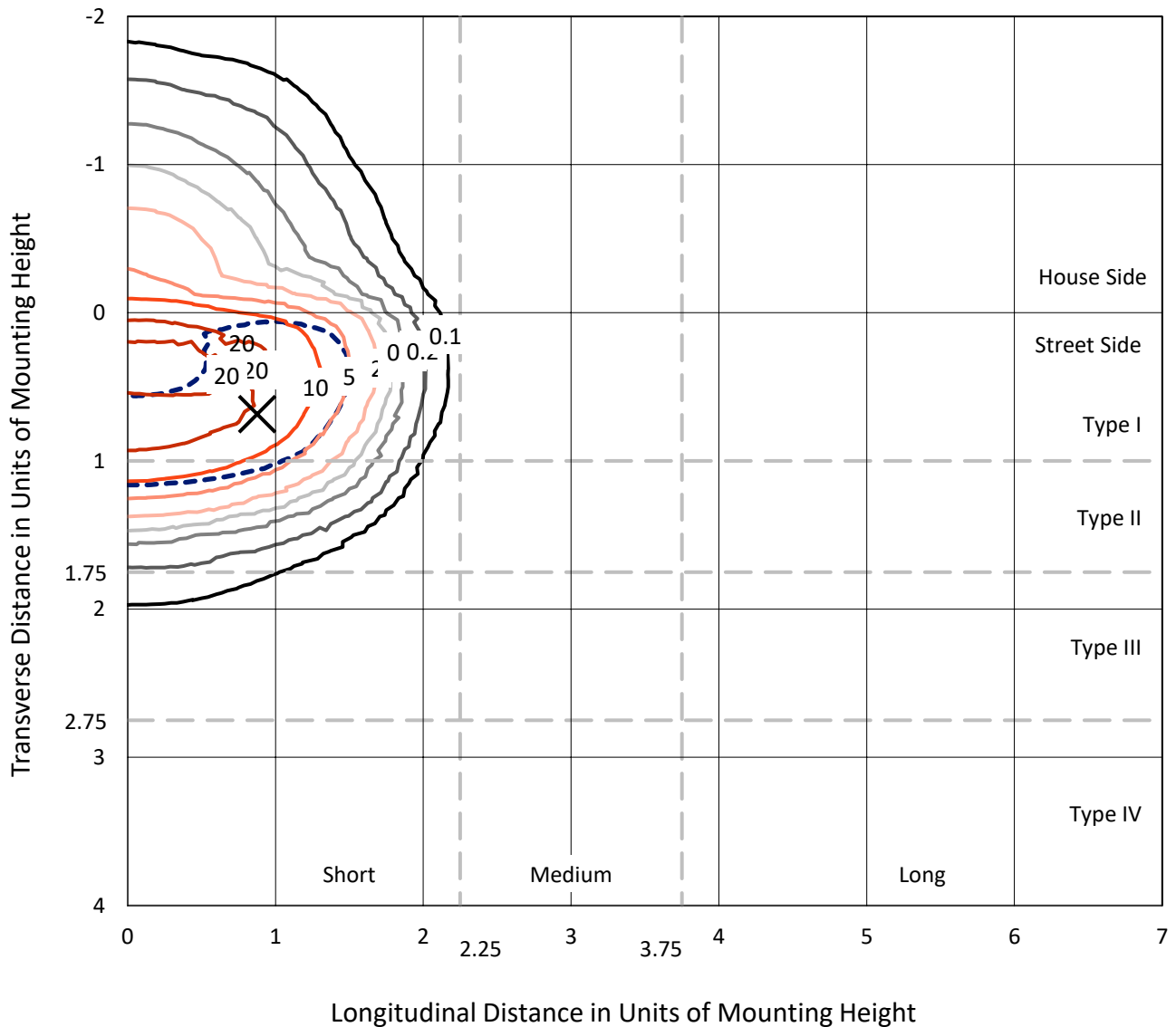
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

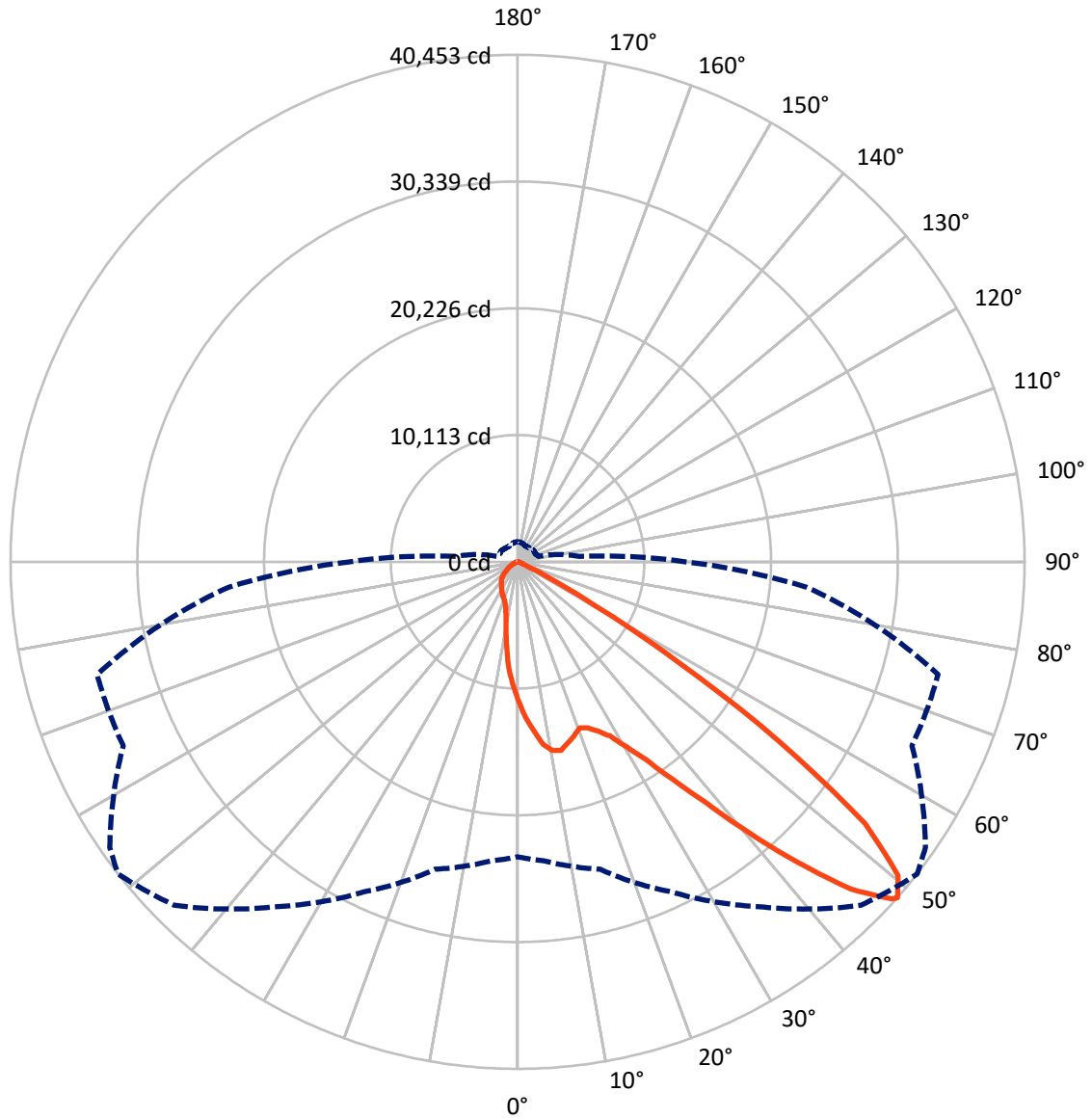
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 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	4695.9	0.0	4695.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	33872.0	0.0	33872.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	38568.0	0.0	38568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.4	2.6
10°-20°	2664.1	6.9
20°-30°	4548.8	11.8
30°-40°	8376.5	21.7
40°-50°	13008.7	33.7
50°-60°	7829.1	20.3
60°-70°	905.5	2.3
70°-80°	175.3	0.5
80°-90°	40.5	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°	38568.0	100.0
0°-180°	38568.0	100.0

Coefficient of Utilization

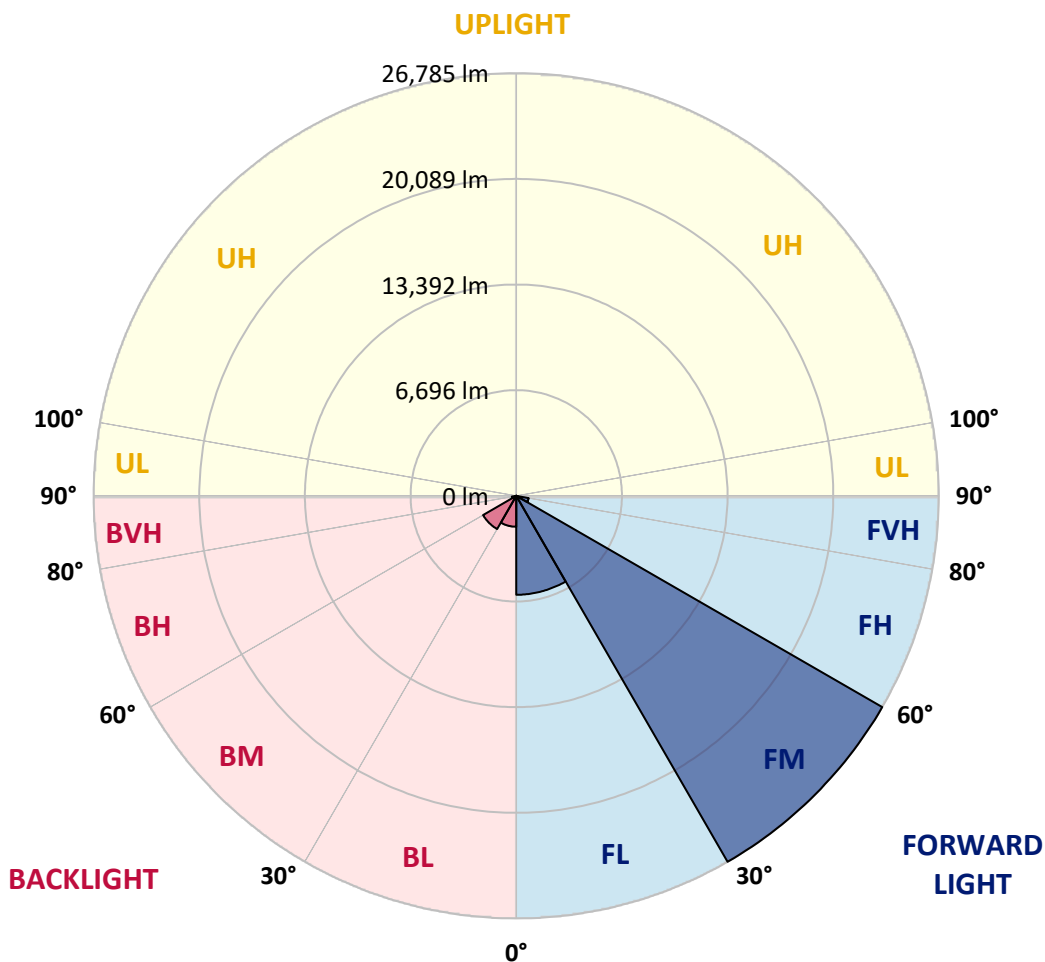


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6270.7	16.3			
FM (30°-60°)	26784.7	69.4			
FH (60°-80°)	797.4	2.1			G1/1800
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1961.7	5.1	B3/2500		
BM (30°-60°)	2429.6	6.3	B2/2500		
BH (60°-80°)	283.4	0.7	B1/500		G1/500
BVH (80°-90°)	21.2	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°	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8
2.5°	13499.2	13189.9	13218.1	13015.6	12897.6	12706.4	12447.8	12397.2	12116.1	11733.8	11345.8
5°	14713.6	14640.5	14736.1	14443.7	14455.0	14140.1	13532.9	13544.1	12897.6	12273.5	11671.9
7.5°	14792.3	14623.6	14719.2	14977.8	15129.6	15073.4	14730.5	14432.5	13819.6	12903.2	12026.1
10°	13246.2	13566.6	13667.8	14095.1	14702.3	15343.3	15303.9	15320.8	14809.2	13611.6	12329.7
12.5°	12318.5	12104.8	12447.8	12706.4	13622.9	14865.4	15433.2	15556.9	15596.3	14297.5	12633.3
15°	11896.8	11896.8	11953.0	12026.1	12689.6	13836.5	14994.7	15354.5	16203.5	15197.1	13111.2
17.5°	12161.1	12149.8	12228.5	12076.7	12324.1	13206.8	14589.9	15000.3	16883.8	16079.8	13487.9
20°	12965.0	13004.4	12953.8	12515.3	12532.1	13195.6	14140.1	14786.7	17344.8	16844.4	13988.3
22.5°	14083.9	14106.4	13819.6	13341.7	13201.2	13527.3	14398.7	14893.5	17715.9	17760.9	14140.1
25°	15377.0	15287.1	15230.8	14556.2	14128.9	14410.0	14983.5	15270.2	17946.4	18548.0	14573.0
27.5°	17170.5	16990.6	16647.7	16046.1	15731.2	15332.0	15742.5	16214.7	18604.2	19650.0	15045.3
30°	19818.6	19661.2	18992.2	18216.3	17389.8	16996.2	17125.6	17384.2	19790.5	20926.2	15669.4
32.5°	23804.9	23473.1	22506.1	21027.4	19903.0	18817.9	18784.1	19059.6	20853.2	22691.6	16411.5
35°	28195.9	28094.7	26672.2	25148.6	22972.8	21297.3	21325.4	21471.6	22888.4	25008.0	17384.2
37.5°	31113.9	31670.5	30765.3	29129.2	27301.9	24906.8	24299.6	24350.2	25682.7	27751.7	19138.3
40°	33368.4	32896.1	33003.0	32620.6	31372.5	29742.0	28398.3	28134.0	28915.5	30787.8	20881.3
42.5°	32384.5	32407.0	33064.8	33970.0	34279.2	34161.2	32789.3	32288.9	31681.7	33272.8	22539.8
45°	29607.1	30186.2	31040.8	33435.9	35538.6	37512.1	37242.2	36410.1	33593.3	35240.6	23495.6
47.5°	25176.7	25154.2	26554.2	29668.9	34341.1	38962.6	40188.3	39603.6	34948.3	35021.4	23298.9
48°	23540.6	23945.4	25390.4	29056.1	33582.1	38749.0	40452.5	39716.0	34717.8	34729.0	23130.2
50°	17401.1	17328.0	19127.1	23625.0	29995.0	36410.1	39339.3	39912.8	34712.1	33250.3	21949.5
52.5°	9192.5	9507.3	10817.3	14854.1	21207.4	29798.2	34700.9	35594.9	33486.5	30832.8	20251.6
55°	3907.5	3530.8	4537.2	6707.4	11930.5	19908.6	25457.8	27448.1	28314.0	27285.1	17715.9
57.5°	1394.3	1523.6	1754.2	2524.4	5015.1	10896.0	15180.2	16726.4	19616.2	20021.0	12071.1
60°	893.9	910.8	983.9	1158.2	1883.5	4199.9	7202.2	8433.5	9743.5	10058.3	5633.6
62.5°	691.5	697.2	730.9	759.0	893.9	1630.5	2704.3	3204.7	3328.4	2861.8	1478.7
65°	579.1	584.7	596.0	596.0	635.3	764.6	944.5	1040.1	1012.0	1000.8	837.7
67.5°	444.2	455.4	477.9	477.9	500.4	466.7	522.9	556.6	629.7	764.6	714.0
70°	348.6	354.2	371.1	382.3	382.3	337.3	376.7	410.4	461.0	567.9	562.2
72.5°	269.9	281.1	292.4	292.4	275.5	230.5	269.9	298.0	331.7	393.6	382.3
75°	208.0	208.0	213.6	174.3	134.9	118.1	163.0	196.8	247.4	258.6	213.6
77.5°	56.2	61.8	56.2	50.6	56.2	84.3	106.8	123.7	157.4	157.4	140.6
80°	0.0	5.6	16.9	33.7	56.2	78.7	95.6	106.8	123.7	134.9	129.3
82.5°	0.0	5.6	16.9	33.7	50.6	61.8	84.3	90.0	101.2	118.1	118.1
85°	0.0	5.6	11.2	22.5	33.7	39.4	39.4	33.7	33.7	28.1	22.5
87.5°	0.0	0.0	5.6	11.2	11.2	16.9	16.9	16.9	16.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8	11137.8
2.5°	11194.0	11019.7	10755.5	10339.4	9940.2	9681.6	9434.2	9158.7	9006.9	8995.7	8911.4
5°	11329.0	10935.4	10305.7	9591.7	8827.0	8169.2	7505.8	7072.9	6684.9	6471.3	6431.9
7.5°	11402.0	10890.4	9872.8	8675.2	7370.8	6297.0	5554.8	5009.5	4795.8	4638.4	4632.8
10°	11553.8	10811.7	9226.2	7460.8	5847.2	4762.1	4250.5	4003.1	3885.0	3840.0	3772.6
12.5°	11666.3	10665.5	8562.8	6212.7	4621.5	3946.9	3722.0	3665.7	3671.4	3693.9	3665.7
15°	11823.7	10536.2	7668.8	5099.4	3879.4	3553.3	3553.3	3564.5	3643.3	3654.5	3648.9
17.5°	11812.5	10283.2	6746.8	4199.9	3429.6	3384.6	3401.5	3508.3	3558.9	3575.8	3536.4
20°	11947.4	10047.1	5796.6	3587.0	3176.6	3244.1	3356.5	3384.6	3446.5	3457.7	3412.7
22.5°	11908.1	9456.7	4913.9	3103.5	2985.4	3114.8	3227.2	3260.9	3244.1	3210.3	3204.7
25°	11835.0	8950.7	4104.3	2783.0	2844.9	2985.4	3092.3	3030.4	2996.7	3002.3	3007.9
27.5°	11705.7	8309.8	3435.2	2558.2	2653.7	2861.8	2856.1	2833.6	2867.4	2839.3	2867.4
30°	11683.2	7668.8	2884.2	2355.7	2513.2	2665.0	2676.2	2715.6	2754.9	2704.3	2754.9
32.5°	11716.9	6966.0	2490.7	2232.1	2428.8	2434.5	2558.2	2597.5	2569.4	2456.9	2468.2
35°	11975.5	6426.3	2203.9	2164.6	2293.9	2299.5	2417.6	2367.0	2243.3	2175.8	2215.2
37.5°	12520.9	5976.5	2069.0	2102.7	2114.0	2187.1	2192.7	2091.5	2102.7	2097.1	2119.6
40°	13218.1	5633.6	1973.4	2046.5	2035.3	2085.9	1883.5	1939.7	1990.3	2007.2	2018.4
42.5°	13695.9	5386.2	1911.6	1956.6	1934.1	1844.1	1731.7	1787.9	1827.3	1889.1	1900.3
45°	13909.6	5189.4	1838.5	1799.1	1799.1	1636.1	1591.1	1602.4	1692.3	1759.8	1748.5
47.5°	13561.0	4998.2	1709.2	1591.1	1630.5	1495.5	1444.9	1444.9	1540.5	1624.8	1608.0
48°	13426.1	4919.5	1714.8	1546.1	1574.2	1473.0	1422.4	1411.2	1518.0	1596.7	1596.7
50°	12757.0	4627.2	1568.6	1422.4	1366.2	1355.0	1321.2	1332.5	1400.0	1473.0	1473.0
52.5°	11452.6	3997.5	1326.9	1220.0	1118.8	1186.3	1203.2	1180.7	1214.4	1281.9	1276.3
55°	9557.9	3069.8	1062.6	1012.0	933.3	1006.4	1040.1	1012.0	978.3	1028.9	1028.9
57.5°	6122.7	1653.0	849.0	860.2	781.5	854.6	882.7	815.2	753.4	792.7	787.1
60°	2760.6	989.5	697.2	680.3	629.7	714.0	759.0	680.3	596.0	624.1	652.2
62.5°	1034.5	702.8	528.5	517.3	506.0	584.7	607.2	545.4	461.0	477.9	483.5
65°	759.0	618.5	421.7	382.3	404.8	461.0	449.8	387.9	331.7	331.7	343.0
67.5°	646.6	539.7	343.0	298.0	298.0	303.6	281.1	247.4	230.5	241.8	253.0
70°	506.0	427.3	269.9	230.5	208.0	185.5	163.0	157.4	140.6	157.4	151.8
72.5°	326.1	286.7	208.0	174.3	157.4	129.3	106.8	101.2	84.3	78.7	78.7
75°	174.3	174.3	163.0	140.6	123.7	101.2	84.3	67.5	45.0	33.7	33.7
77.5°	123.7	134.9	146.2	134.9	112.4	84.3	67.5	45.0	22.5	11.2	11.2
80°	118.1	134.9	146.2	129.3	112.4	84.3	61.8	33.7	16.9	5.6	5.6
82.5°	106.8	123.7	134.9	118.1	101.2	73.1	56.2	33.7	16.9	5.6	5.6
85°	22.5	28.1	33.7	33.7	39.4	50.6	39.4	28.1	11.2	5.6	5.6
87.5°	16.9	16.9	16.9	16.9	16.9	16.9	11.2	11.2	5.6	5.6	5.6
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)