

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: P528584

Luminaire Tested: **GALN-SA3C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14559 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 160
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

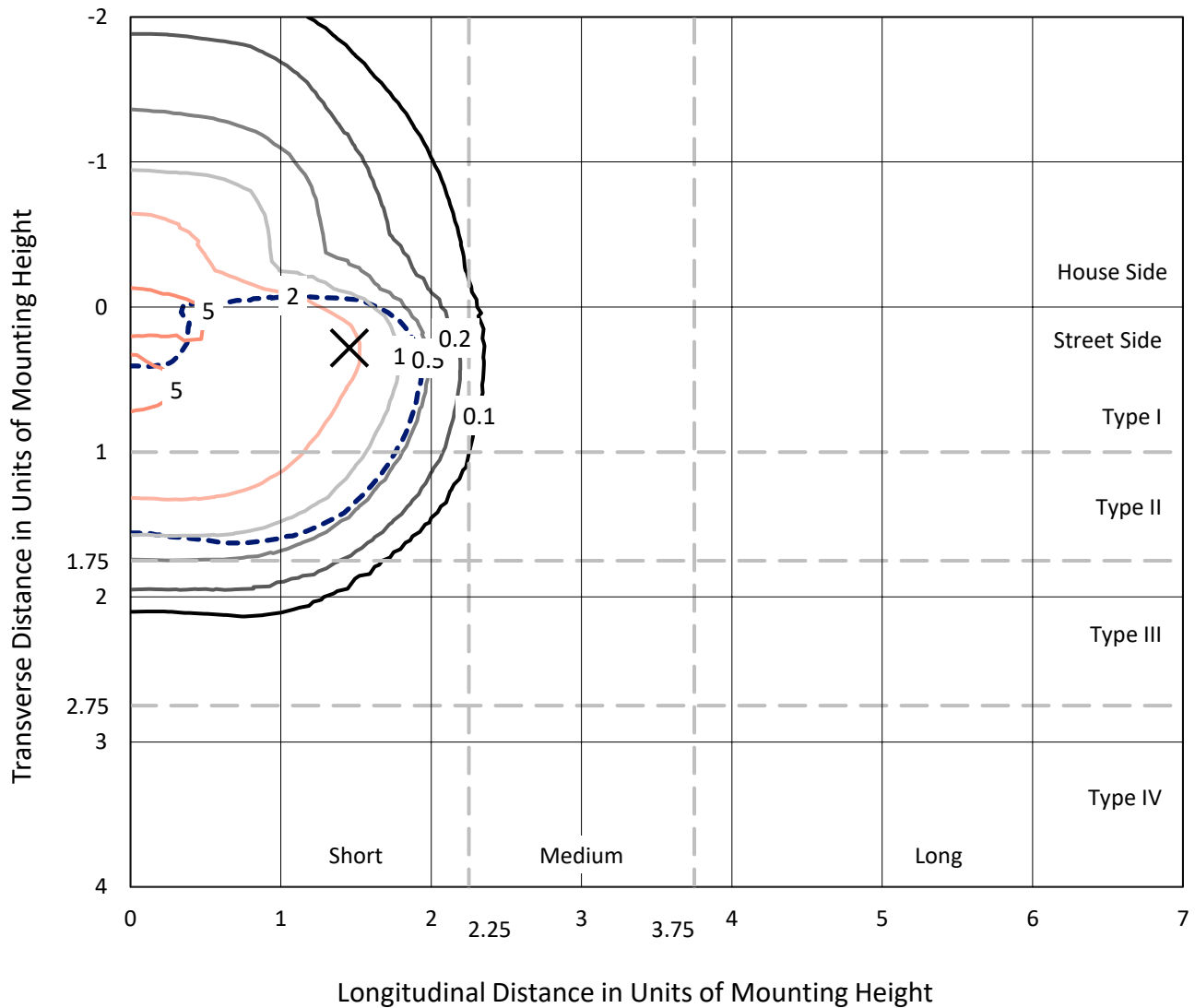


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Iso-Footcandle Lines of Horizontal Illumination

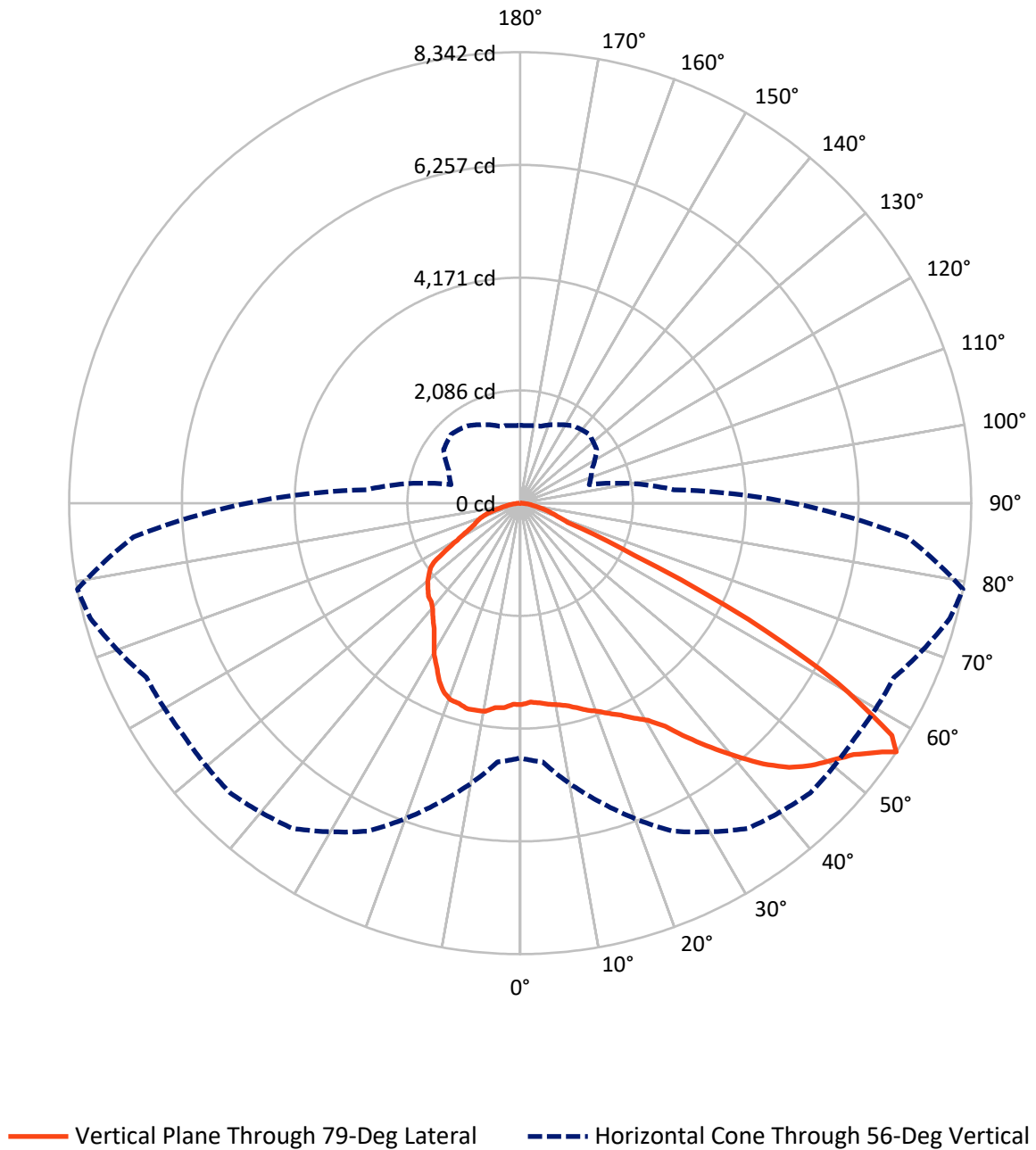
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4299.6	0.0	4299.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10259.4	0.0	10259.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	14559.0	0.0	14559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	2.3
10°-20°	926.9	6.4
20°-30°	1585.7	10.9
30°-40°	2430.3	16.7
40°-50°	3284.5	22.6
50°-60°	3772.4	25.9
60°-70°	1719.6	11.8
70°-80°	424.0	2.9
80°-90°	77.0	0.5
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°	14559.0	100.0
0°-180°	14559.0	100.0

Coefficient of Utilization



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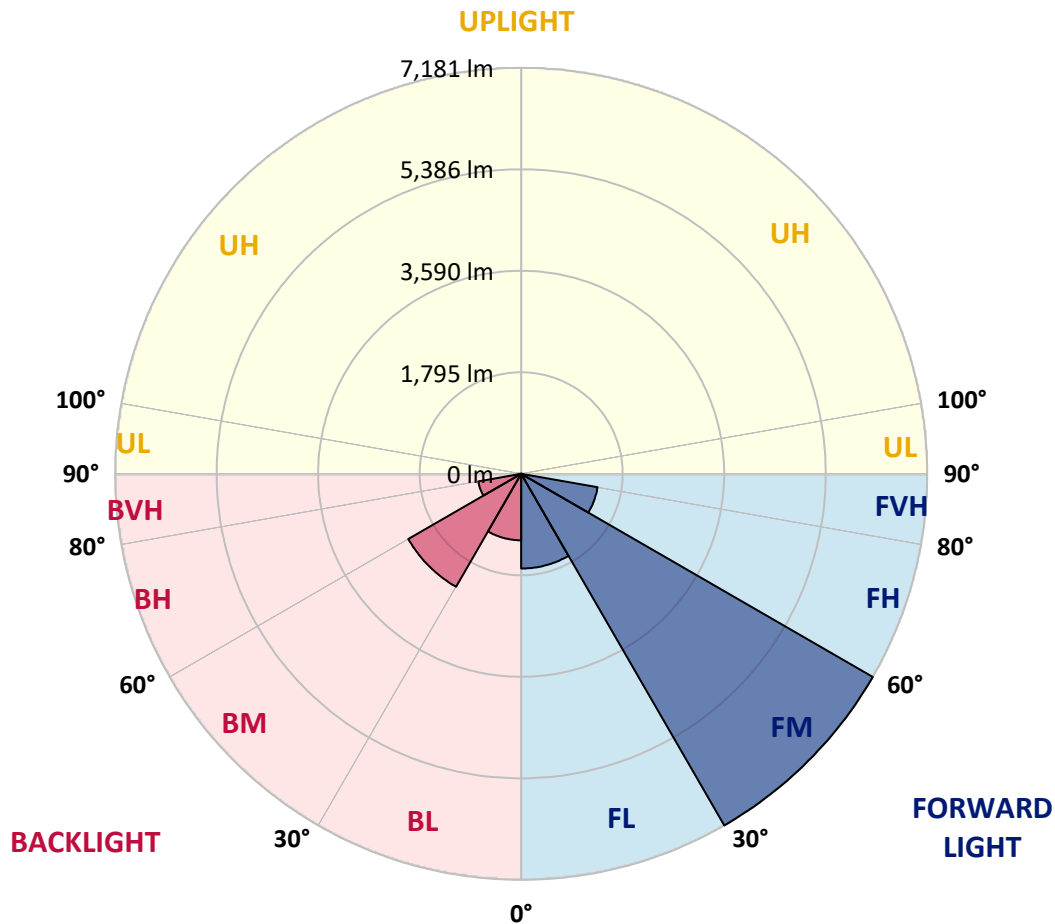
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1675.1	11.5			
FM	(30°-60°)	7180.9	49.3			
FH	(60°-80°)	1372.6	9.4			G1/1800
FVH	(80°-90°)	30.8	0.2			G1/100
BL	(0°-30°)	1176.1	8.1	B3/2500		
BM	(30°-60°)	2306.2	15.8	B2/2500		
BH	(60°-80°)	770.9	5.3	B2/1000		G2/1000
BVH	(80°-90°)	46.3	0.3			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°	55°	65°	75°	79°	85°
0°	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1
2.5°	3543.7	3534.6	3556.4	3572.7	3592.7	3618.1	3630.8	3638.0	3701.5	3685.2	3734.1
5°	3467.5	3444.0	3460.3	3473.0	3507.4	3538.3	3572.7	3627.1	3685.2	3710.6	3770.4
7.5°	3400.4	3387.7	3384.1	3393.2	3440.3	3480.2	3540.1	3619.9	3714.2	3755.9	3790.4
10°	3289.8	3271.7	3298.9	3358.7	3371.4	3454.8	3523.8	3638.0	3719.6	3792.2	3893.7
12.5°	3240.8	3222.7	3228.2	3262.6	3351.5	3431.3	3512.9	3641.6	3813.9	3843.0	3979.0
15°	3318.8	3300.7	3306.1	3297.1	3382.3	3424.0	3552.8	3714.2	3879.2	3928.2	4073.3
17.5°	3496.6	3498.4	3474.8	3454.8	3434.9	3523.8	3612.6	3757.7	3904.6	4027.9	4136.8
20°	3835.7	3775.9	3728.7	3616.3	3585.4	3623.5	3736.0	3875.6	4008.0	4109.5	4232.9
22.5°	4096.9	4102.3	4035.2	3850.2	3783.1	3799.4	3895.5	4009.8	4154.9	4227.4	4368.9
25°	4475.9	4437.8	4365.3	4218.4	4067.8	4080.5	4151.3	4254.6	4294.5	4345.3	4499.5
27.5°	4822.3	4833.2	4689.9	4552.1	4365.3	4329.0	4455.9	4474.1	4407.0	4503.1	4555.7
30°	5174.1	5165.0	5070.7	4909.3	4726.2	4733.4	4789.6	4700.8	4608.3	4660.9	4697.1
32.5°	5538.6	5435.3	5431.6	5286.6	5146.9	5079.8	5010.9	5054.4	4911.1	4922.0	4887.6
35°	5830.6	5845.1	5761.7	5658.3	5589.4	5471.5	5282.9	5360.9	5333.7	5321.0	5172.3
37.5°	6042.8	5986.6	6028.3	5993.8	5928.6	5781.7	5585.8	5660.2	5672.8	5734.5	5562.2
40°	6216.9	6193.3	6304.0	6322.1	6276.8	5959.4	5607.6	5828.8	6019.2	6153.4	5948.5
42.5°	6300.3	6351.1	6467.2	6606.8	6505.3	6166.1	5720.0	5957.6	6382.0	6594.1	6314.8
45°	6412.8	6347.5	6519.8	6775.5	6777.3	6340.2	5828.8	6131.7	6664.9	6973.2	6565.1
47.5°	6298.5	6331.2	6508.9	6833.5	6917.0	6523.4	6122.6	6378.3	6976.8	7250.7	6797.3
50°	6042.8	6108.1	6432.7	6770.1	7022.1	6717.5	6459.9	6644.9	7265.2	7473.7	6835.3
52.5°	5776.2	5812.5	6320.3	6819.0	7069.3	6967.7	6911.5	7013.1	7617.0	7725.8	6882.5
55°	5050.8	5223.1	5948.5	6797.3	7299.6	7419.3	7375.8	7524.5	8016.0	8124.8	7140.0
56°	4715.3	4806.0	5725.4	6695.7	7345.0	7584.3	7562.6	7629.7	8228.2	8342.4	7179.9
57.5°	4095.0	4102.3	4882.1	6245.9	7174.5	7633.3	7611.6	7664.1	8186.5	8108.5	6829.9
60°	2562.6	2675.0	3322.5	4804.1	6100.8	7082.0	7205.3	6782.7	6902.4	6737.4	5313.8
62.5°	1327.5	1311.2	1741.0	2809.2	4049.7	5070.7	5185.0	5165.0	4980.1	4738.9	3471.2
65°	662.0	665.6	910.4	1391.0	2074.7	2655.1	2974.3	3008.7	2517.2	2315.9	1646.7
67.5°	480.6	498.7	654.7	850.6	977.5	1093.6	1340.2	1314.8	995.6	946.7	877.8
70°	373.6	389.9	531.4	649.3	589.4	589.4	642.0	663.8	709.1	729.1	752.6
72.5°	272.0	284.7	406.2	448.0	386.3	415.3	480.6	531.4	578.5	585.8	613.0
75°	186.8	197.7	266.6	246.6	232.1	286.5	351.8	399.0	433.4	451.6	467.9
77.5°	121.5	125.1	152.3	128.8	148.7	185.0	228.5	268.4	302.9	317.4	321.0
80°	54.4	59.8	65.3	81.6	103.4	132.4	163.2	195.9	217.6	223.1	234.0
82.5°	30.8	30.8	39.9	58.0	76.2	96.1	117.9	141.5	166.8	172.3	170.5
85°	16.3	16.3	23.6	34.5	47.2	56.2	54.4	56.2	59.8	68.9	67.1
87.5°	5.4	5.4	7.3	7.3	9.1	10.9	9.1	12.7	16.3	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1
2.5°	3719.6	3736.0	3714.2	3761.3	3761.3	3752.3	3706.9	3721.4	3732.3	3732.3	3741.4
5°	3790.4	3784.9	3799.4	3743.2	3708.7	3696.1	3621.7	3585.4	3554.6	3552.8	3525.6
7.5°	3830.3	3815.8	3810.3	3768.6	3616.3	3523.8	3364.2	3271.7	3251.7	3181.0	3208.2
10°	3893.7	3920.9	3893.7	3667.0	3454.8	3242.7	3086.7	2943.4	2887.2	2841.9	2814.7
12.5°	4024.3	4011.6	3853.8	3547.3	3249.9	2997.8	2765.7	2615.2	2558.9	2519.0	2515.4
15°	4134.9	4071.5	3830.3	3358.7	2930.7	2662.3	2471.9	2364.9	2339.5	2343.1	2359.5
17.5°	4173.0	4129.5	3706.9	3162.9	2693.2	2377.6	2288.7	2272.4	2296.0	2323.2	2330.4
20°	4232.9	4164.0	3656.2	2896.3	2399.4	2199.9	2194.4	2252.5	2296.0	2335.9	2341.3
22.5°	4358.0	4183.9	3491.1	2644.2	2198.0	2147.3	2199.9	2248.8	2315.9	2348.6	2319.6
25°	4394.3	4140.4	3259.0	2341.3	2071.1	2114.6	2170.8	2237.9	2285.1	2303.2	2315.9
27.5°	4425.1	4073.3	2945.2	2140.0	2031.2	2112.8	2170.8	2227.1	2252.5	2268.8	2283.3
30°	4512.2	4053.3	2673.2	2005.8	2005.8	2076.5	2150.9	2165.4	2199.9	2219.8	2245.2
32.5°	4555.7	3915.5	2393.9	1920.6	1980.4	2094.7	2100.1	2127.3	2129.1	2145.5	2118.2
35°	4669.9	3817.6	2134.6	1858.9	1991.3	2076.5	2103.7	2087.4	1998.6	1955.0	1964.1
37.5°	4753.4	3768.6	1947.8	1851.7	1993.1	2096.5	2111.0	1987.7	1895.2	1822.6	1840.8
40°	4978.2	3647.1	1806.3	1839.0	2009.4	2118.2	2078.4	1944.1	1777.3	1702.9	1690.2
42.5°	5150.5	3560.0	1717.5	1824.5	2022.1	2149.1	2062.0	1857.1	1686.6	1617.7	1635.8
45°	5350.0	3540.1	1670.3	1828.1	2043.9	2165.4	2042.1	1790.0	1608.6	1581.4	1576.0
47.5°	5420.8	3396.8	1619.5	1797.2	2038.5	2160.0	1975.0	1739.2	1579.6	1583.2	1597.8
50°	5302.9	3249.9	1581.4	1733.8	2002.2	2111.0	1869.8	1672.1	1563.3	1608.6	1634.0
52.5°	5152.4	3099.4	1503.4	1648.5	1927.8	2034.8	1820.8	1668.5	1547.0	1532.5	1537.9
55°	5197.7	2976.1	1394.6	1532.5	1808.1	1893.4	1766.4	1634.0	1507.1	1452.7	1470.8
56°	5050.8	2849.1	1323.9	1459.9	1726.5	1802.7	1739.2	1603.2	1474.4	1438.2	1438.2
57.5°	4635.5	2422.9	1231.4	1343.9	1554.2	1644.9	1686.6	1585.1	1438.2	1374.7	1376.5
60°	3418.6	1722.9	1104.5	1184.3	1287.6	1360.2	1554.2	1534.3	1347.5	1304.0	1287.6
62.5°	2107.4	1258.6	1013.8	1044.6	1097.2	1157.1	1356.5	1389.2	1251.4	1204.2	1193.3
65°	1180.6	963.0	944.9	957.6	983.0	1013.8	1126.2	1198.8	1104.5	1031.9	1028.3
67.5°	863.3	861.4	876.0	886.8	897.7	897.7	924.9	953.9	941.2	883.2	877.8
70°	767.1	772.6	783.5	785.3	788.9	776.2	754.4	745.4	759.9	723.6	716.4
72.5°	632.9	651.1	663.8	665.6	645.6	629.3	600.3	569.5	558.6	551.3	549.5
75°	486.0	498.7	504.2	502.4	495.1	471.5	437.1	406.2	386.3	364.5	375.4
77.5°	328.3	346.4	355.5	355.5	344.6	308.3	292.0	268.4	248.5	224.9	228.5
80°	230.3	243.0	257.5	255.7	237.6	219.4	195.9	174.1	157.8	139.6	137.8
82.5°	172.3	179.5	186.8	183.2	170.5	152.3	136.0	116.1	97.9	85.2	85.2
85°	61.7	67.1	81.6	85.2	92.5	92.5	78.0	65.3	52.6	43.5	43.5
87.5°	18.1	18.1	19.9	19.9	18.1	19.9	16.3	18.1	19.9	12.7	12.7
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)