

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: P459120

Luminaire Tested: **GALN-SA6A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18275 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

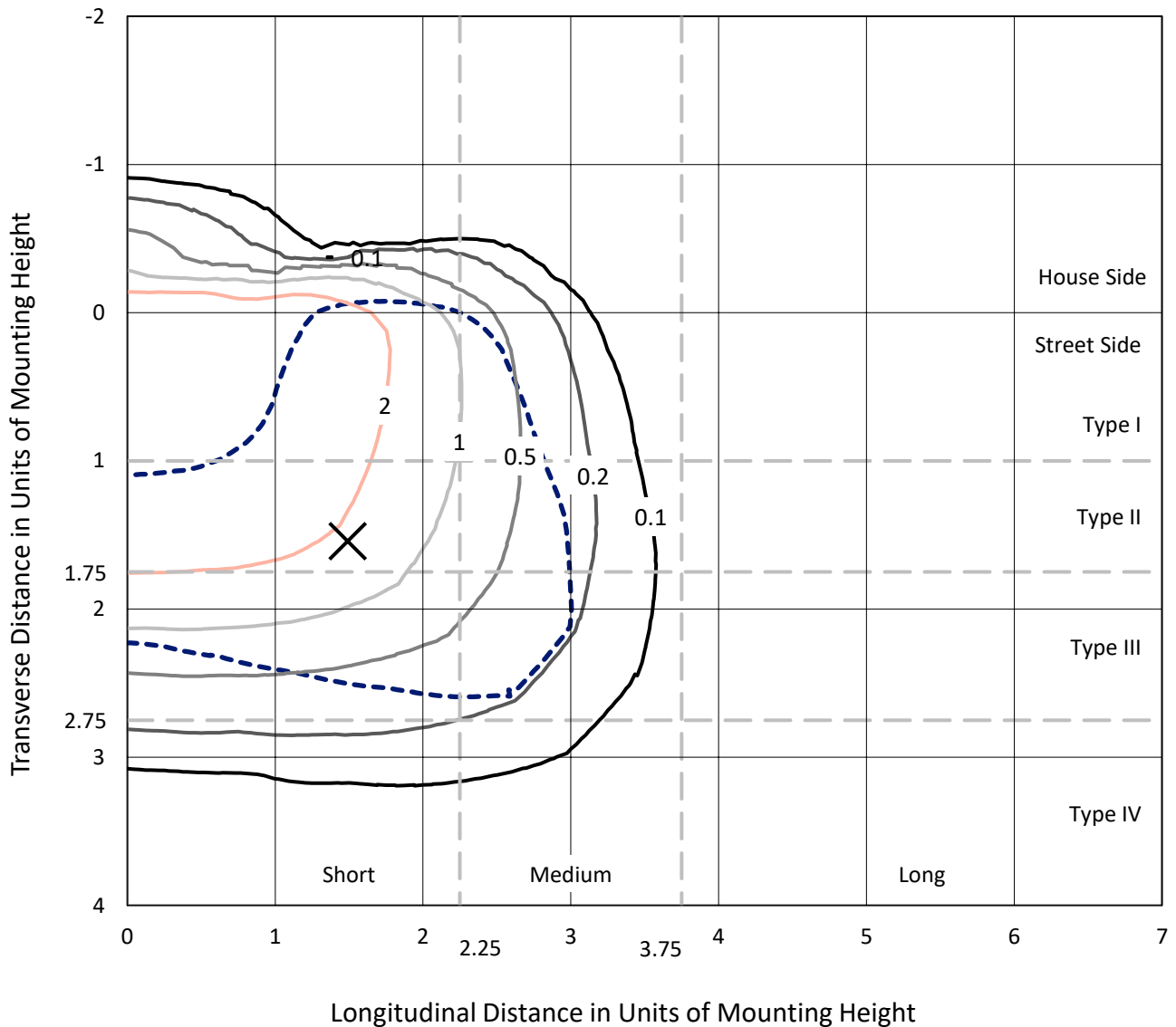
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

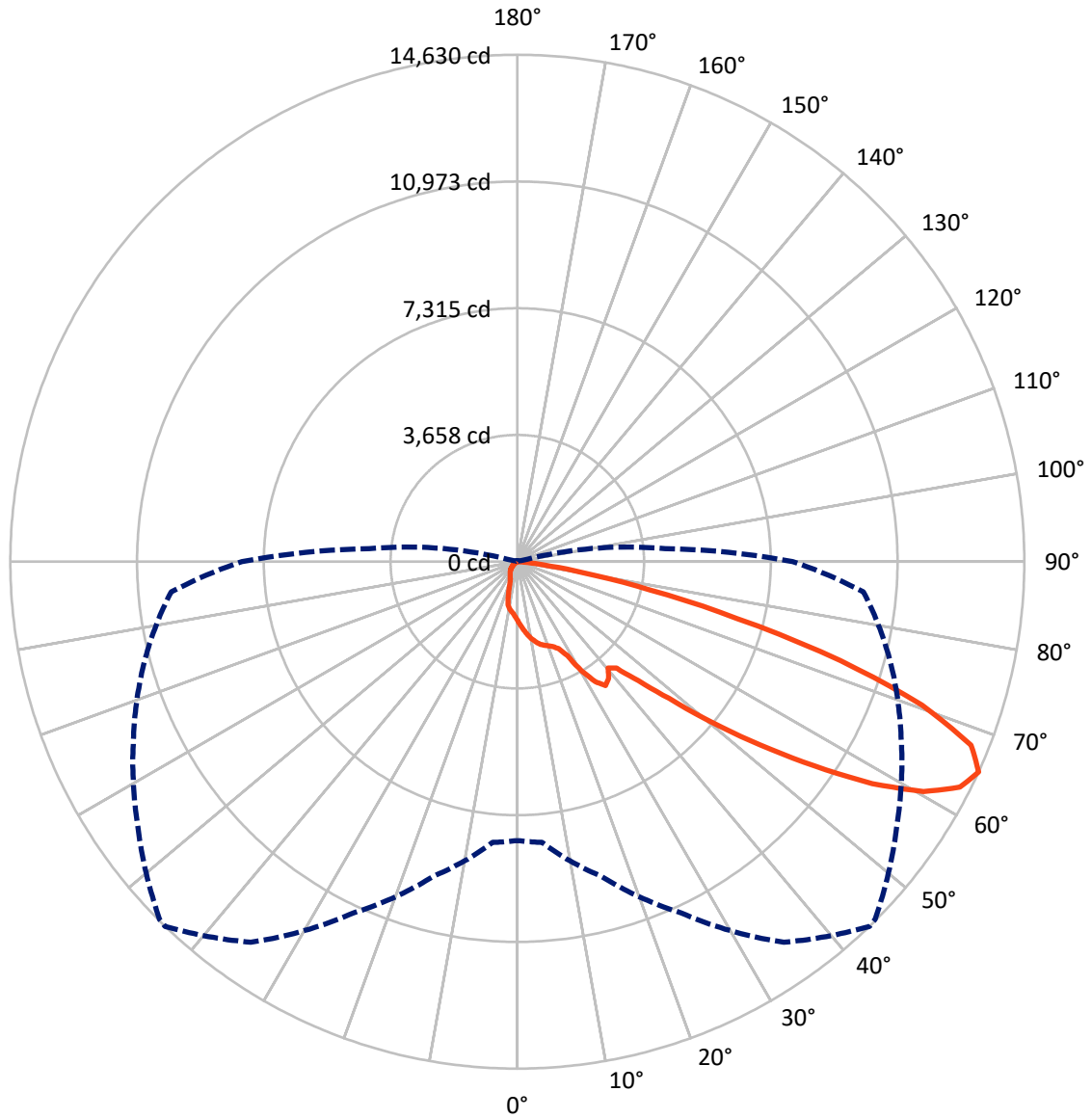
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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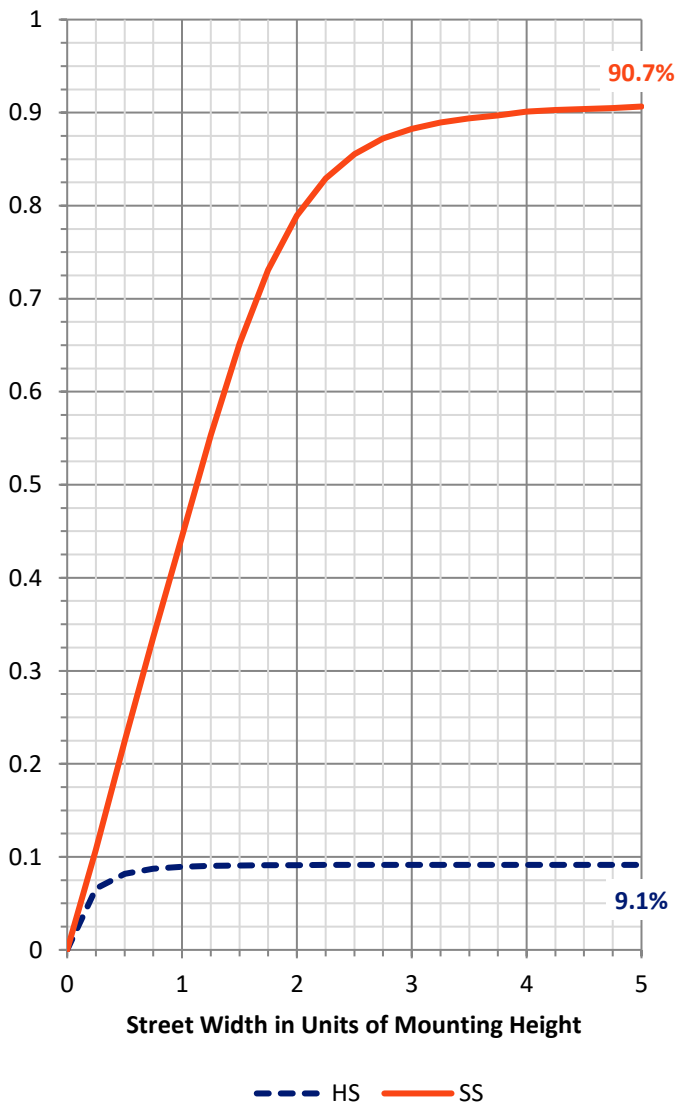
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.8	0.0	1683.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16591.2	0.0	16591.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	18275.0	0.0	18275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	0.9
10°-20°	509.1	2.8
20°-30°	863.3	4.7
30°-40°	1435.4	7.9
40°-50°	2506.3	13.7
50°-60°	4896.3	26.8
60°-70°	5680.9	31.1
70°-80°	2068.7	11.3
80°-90°	145.8	0.8
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°	18275.0	100.0
0°-180°	18275.0	100.0



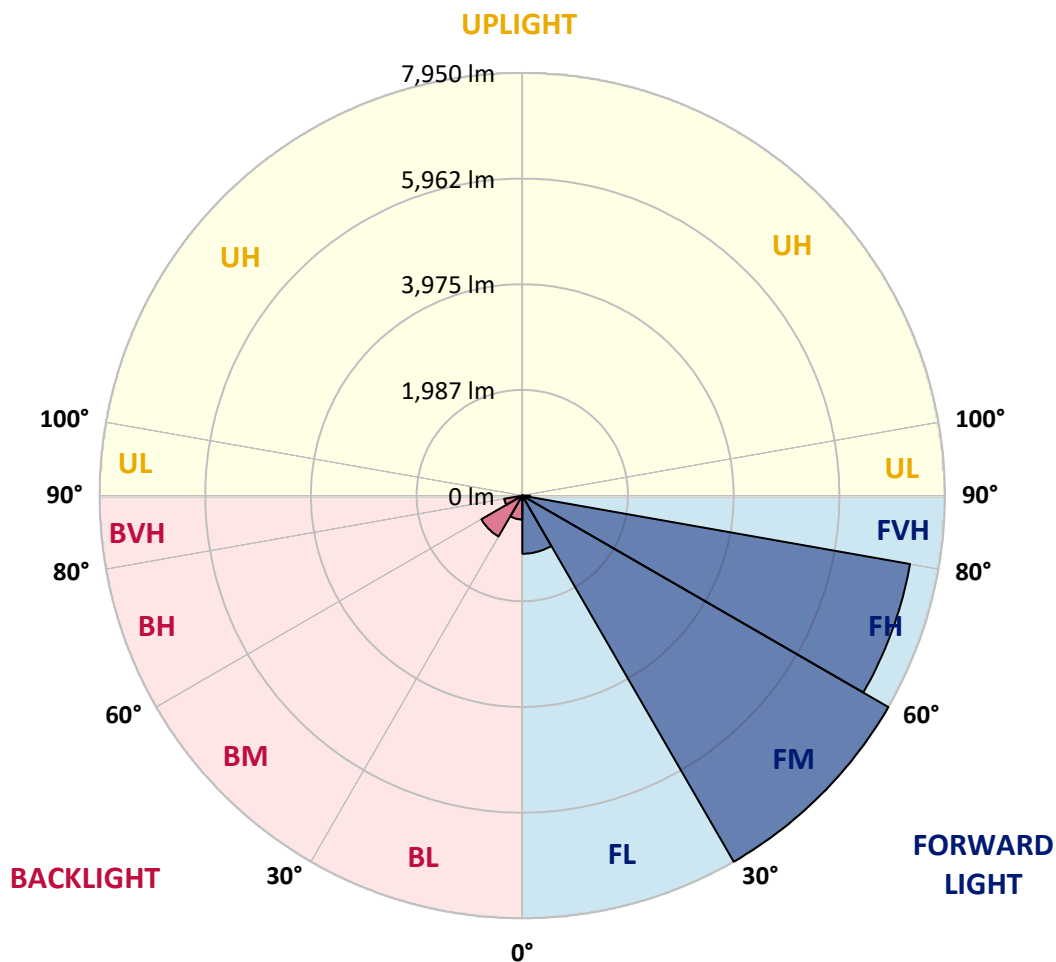
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.0	6.0			
FM (30°-60°)	7949.7	43.5			
FH (60°-80°)	7404.8	40.5			G3/7500
FVH (80°-90°)	143.8	0.8			G2/225
BL (0°-30°)	448.6	2.5	B1/500		
BM (30°-60°)	888.4	4.9	B1/1000		
BH (60°-80°)	344.8	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1914.5	1906.1	1901.9	1879.6	1862.8	1841.9	1841.9	1815.4	1784.6	1751.1	1720.4
5°	2128.2	2114.2	2096.0	2076.5	2037.4	1981.5	1981.5	1925.7	1861.4	1804.2	1741.4
7.5°	2333.4	2320.9	2290.2	2252.4	2188.2	2129.6	2125.4	2044.4	1967.6	1881.0	1791.6
10°	2513.6	2503.8	2477.3	2404.7	2337.6	2260.8	2259.4	2168.7	2079.3	1973.2	1862.8
12.5°	2639.3	2640.7	2605.7	2535.9	2449.3	2376.7	2371.1	2281.8	2188.2	2073.7	1938.3
15°	2728.6	2728.6	2692.3	2614.1	2535.9	2471.7	2466.1	2387.9	2291.5	2167.3	2020.6
17.5°	2753.8	2762.1	2723.0	2653.2	2590.4	2534.5	2533.1	2467.5	2390.7	2270.6	2104.4
20°	2744.0	2752.4	2721.7	2667.2	2623.9	2591.8	2587.6	2561.1	2489.8	2376.7	2193.8
22.5°	2723.0	2731.4	2709.1	2677.0	2656.0	2665.8	2658.8	2681.2	2643.5	2506.6	2299.9
25°	2727.2	2735.6	2718.9	2700.7	2718.9	2778.9	2797.1	2893.4	2859.9	2671.4	2414.4
27.5°	2858.5	2875.3	2851.5	2859.9	2924.1	3063.8	3098.7	3264.9	3116.8	2880.8	2593.2
30°	3150.4	3139.2	3094.5	3135.0	3358.4	3654.5	3644.7	3618.2	3386.4	3122.4	2805.4
32.5°	3415.7	3405.9	3403.1	3577.7	3982.6	4126.5	4119.5	3862.5	3627.9	3398.9	3014.9
35°	3523.2	3485.5	3477.1	3900.2	4577.5	4387.6	4344.3	3963.1	3921.2	3700.6	3228.6
37.5°	3847.2	3820.6	3690.8	3953.3	4340.1	4277.3	4243.8	4136.2	4234.0	3967.3	3470.1
40°	4514.7	4440.7	4323.4	4066.4	4003.6	4030.1	4063.6	4358.3	4604.0	4331.7	3792.7
42.5°	5344.2	5327.4	5109.6	4630.6	4160.0	4196.3	4239.6	4821.9	5136.1	4880.5	4319.2
45°	6339.8	6363.6	6049.4	5483.8	4866.6	4897.3	4960.1	5506.1	5856.6	5733.8	5147.3
47.5°	7244.7	7226.5	7120.4	6532.5	5962.8	5894.4	5996.3	6384.5	6853.7	6873.3	6175.0
50°	8155.2	8251.5	8093.7	7863.3	7440.2	7296.4	7258.7	7448.6	8163.6	8070.0	7409.5
52.5°	9463.6	9513.9	9217.9	9159.2	9255.6	8789.2	8751.5	8797.5	9437.1	9115.9	8333.9
55°	10286.1	10256.8	10146.5	10604.5	10985.8	10403.4	10356.0	10170.2	10494.2	9854.6	9223.5
57.5°	10545.9	10587.8	10844.7	11672.8	12574.9	12080.6	11994.0	11466.1	11256.7	10543.1	10041.8
60°	10430.0	10506.8	11061.2	12292.8	13544.0	13470.0	13396.0	12509.3	11804.1	11118.4	10615.7
62.5°	9604.7	9712.2	10598.9	12182.5	13872.2	14334.4	14242.2	13160.0	12168.5	11397.7	10716.2
65°	8049.0	8128.6	9402.2	11181.3	13405.8	14630.4	14596.9	13363.9	12225.8	11142.2	10027.8
67.5°	5738.0	6008.9	7188.8	9423.1	12026.1	14124.9	14182.2	13119.5	11688.2	10037.6	8304.6
70°	3607.0	3791.3	4637.6	6746.2	9641.0	12392.0	12580.5	12001.0	10143.7	7824.2	5559.2
72.5°	1720.4	1857.3	2460.5	4270.3	6804.8	9749.9	9899.3	9851.8	7843.8	4929.4	2868.3
75°	766.6	818.3	1174.4	2179.8	4393.2	6553.5	6940.3	7004.5	4901.5	2411.6	1115.8
77.5°	391.0	392.4	550.2	1055.7	2193.8	3910.0	3986.8	4211.6	2657.4	1062.7	388.2
80°	208.1	222.0	291.9	498.5	1138.1	1925.7	1915.9	2105.8	1178.6	520.9	129.9
82.5°	93.6	103.3	164.8	261.1	555.8	730.3	787.6	861.6	505.5	332.4	57.3
85°	27.9	33.5	81.0	131.3	201.1	210.9	236.0	304.4	286.3	236.0	29.3
87.5°	4.2	4.2	33.5	36.3	29.3	37.7	39.1	43.3	92.2	86.6	15.4
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°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1703.7	1693.9	1659.0	1629.6	1604.5	1589.1	1571.0	1559.8	1554.2	1550.0	1551.4
5°	1710.6	1686.9	1626.8	1579.4	1543.1	1504.0	1477.4	1462.1	1455.1	1443.9	1443.9
7.5°	1749.7	1712.0	1628.2	1555.6	1492.8	1439.7	1389.5	1371.3	1358.7	1355.9	1353.1
10°	1805.6	1758.1	1643.6	1543.1	1453.7	1381.1	1309.9	1247.0	1198.1	1168.8	1164.6
12.5°	1875.4	1807.0	1667.3	1534.7	1420.2	1291.7	1103.2	976.1	890.9	864.4	868.6
15°	1939.6	1865.6	1691.1	1527.7	1358.7	1071.1	857.4	712.2	668.9	664.7	666.1
17.5°	2016.5	1928.5	1719.0	1517.9	1189.8	818.3	636.8	597.7	606.1	620.0	618.6
20°	2096.0	1995.5	1752.5	1459.3	949.6	615.8	562.8	567.0	579.5	592.1	594.9
22.5°	2181.2	2072.3	1791.6	1318.2	724.7	536.2	533.4	539.0	551.6	565.6	568.3
25°	2298.5	2168.7	1821.0	1133.9	548.8	495.7	501.3	511.1	522.3	537.6	540.4
27.5°	2449.3	2298.5	1836.3	893.7	474.8	459.4	460.8	474.8	488.8	502.7	502.7
30°	2644.8	2453.5	1805.6	675.9	438.5	424.5	418.9	427.3	445.5	459.4	460.8
32.5°	2819.4	2600.2	1724.6	516.7	411.9	392.4	378.4	379.8	386.8	395.2	396.6
35°	2994.0	2742.6	1586.3	434.3	384.0	361.7	340.7	329.6	324.0	319.8	324.0
37.5°	3217.4	2919.9	1402.0	395.2	360.3	332.4	303.0	279.3	259.7	247.2	250.0
40°	3505.1	3165.7	1184.2	370.1	337.9	304.4	265.3	234.6	201.1	189.9	184.3
42.5°	3979.8	3538.6	955.2	349.1	315.6	275.1	226.2	184.3	153.6	142.4	145.2
45°	4729.7	4009.2	735.9	326.8	293.3	243.0	189.9	145.2	120.1	114.5	117.3
47.5°	5724.0	4618.0	567.0	301.6	265.3	208.1	149.4	114.5	99.1	97.8	96.4
50°	6659.6	5185.0	473.4	273.7	231.8	173.2	122.9	96.4	86.6	85.2	85.2
52.5°	7505.8	5591.3	385.4	241.6	195.5	142.4	103.3	85.2	76.8	72.6	72.6
55°	8258.5	5856.6	312.8	202.5	153.6	113.1	89.4	76.8	67.0	61.4	60.0
57.5°	8826.9	5888.8	234.6	162.0	114.5	88.0	76.8	67.0	55.9	48.9	46.1
60°	9069.8	5610.9	173.2	122.9	85.2	69.8	61.4	54.5	41.9	34.9	33.5
62.5°	8825.5	5070.5	128.5	93.6	65.6	51.7	43.3	40.5	29.3	20.9	19.6
65°	7949.9	4289.8	101.9	71.2	48.9	37.7	27.9	26.5	18.2	9.8	8.4
67.5°	6369.1	3359.8	81.0	53.1	34.9	25.1	18.2	16.8	9.8	2.8	2.8
70°	4141.8	2147.7	65.6	39.1	22.3	16.8	11.2	8.4	5.6	1.4	0.0
72.5°	2048.6	1004.0	53.1	30.7	15.4	8.4	4.2	2.8	4.2	0.0	0.0
75°	794.6	357.5	39.1	20.9	8.4	4.2	2.8	0.0	1.4	0.0	0.0
77.5°	263.9	118.7	23.7	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	97.8	46.1	12.6	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.1	18.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.6	11.2	5.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	8.4	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
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)