

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: P458946

Luminaire Tested: **GALN-SA4C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458946
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-SA4C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 18742 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

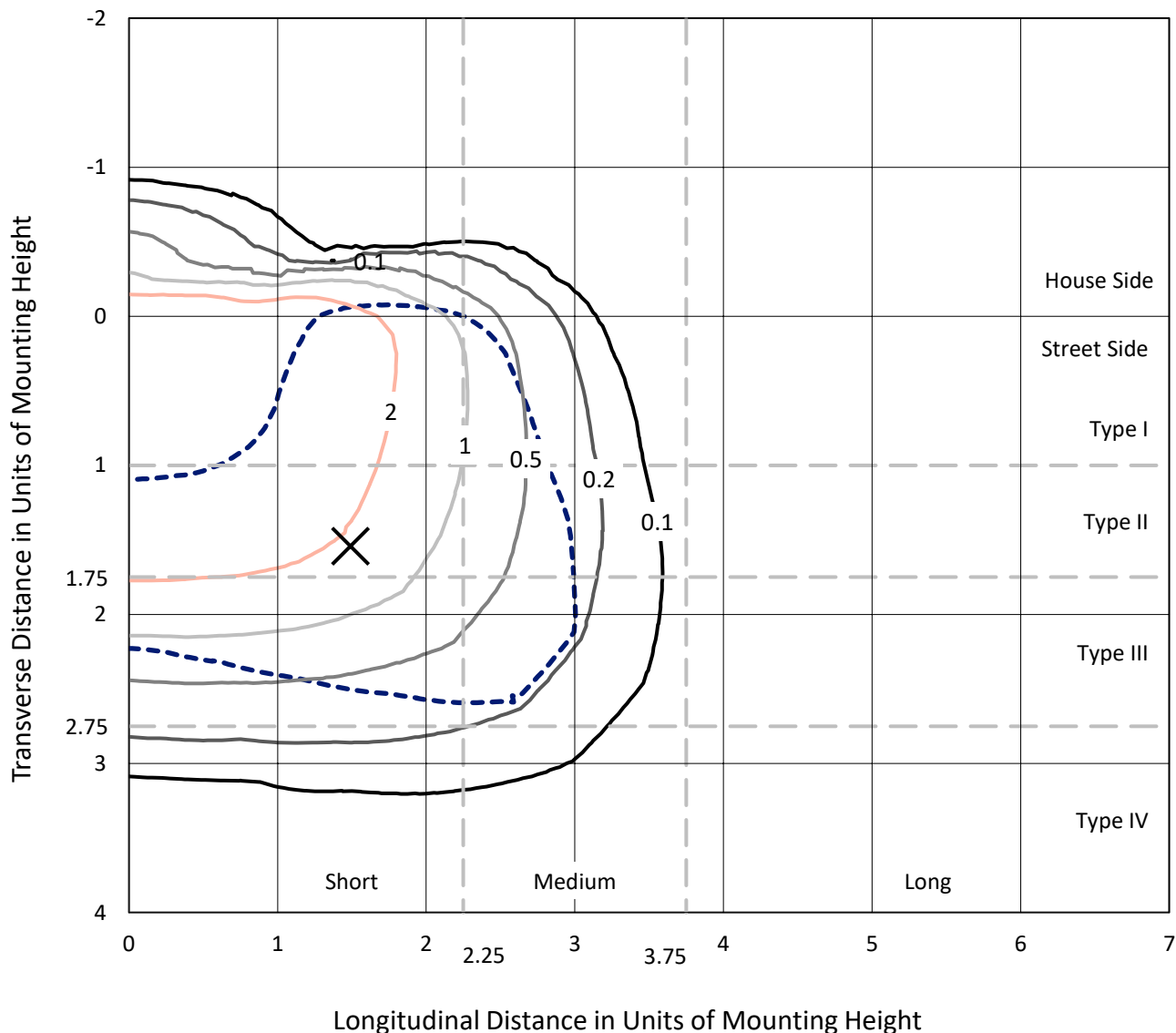
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

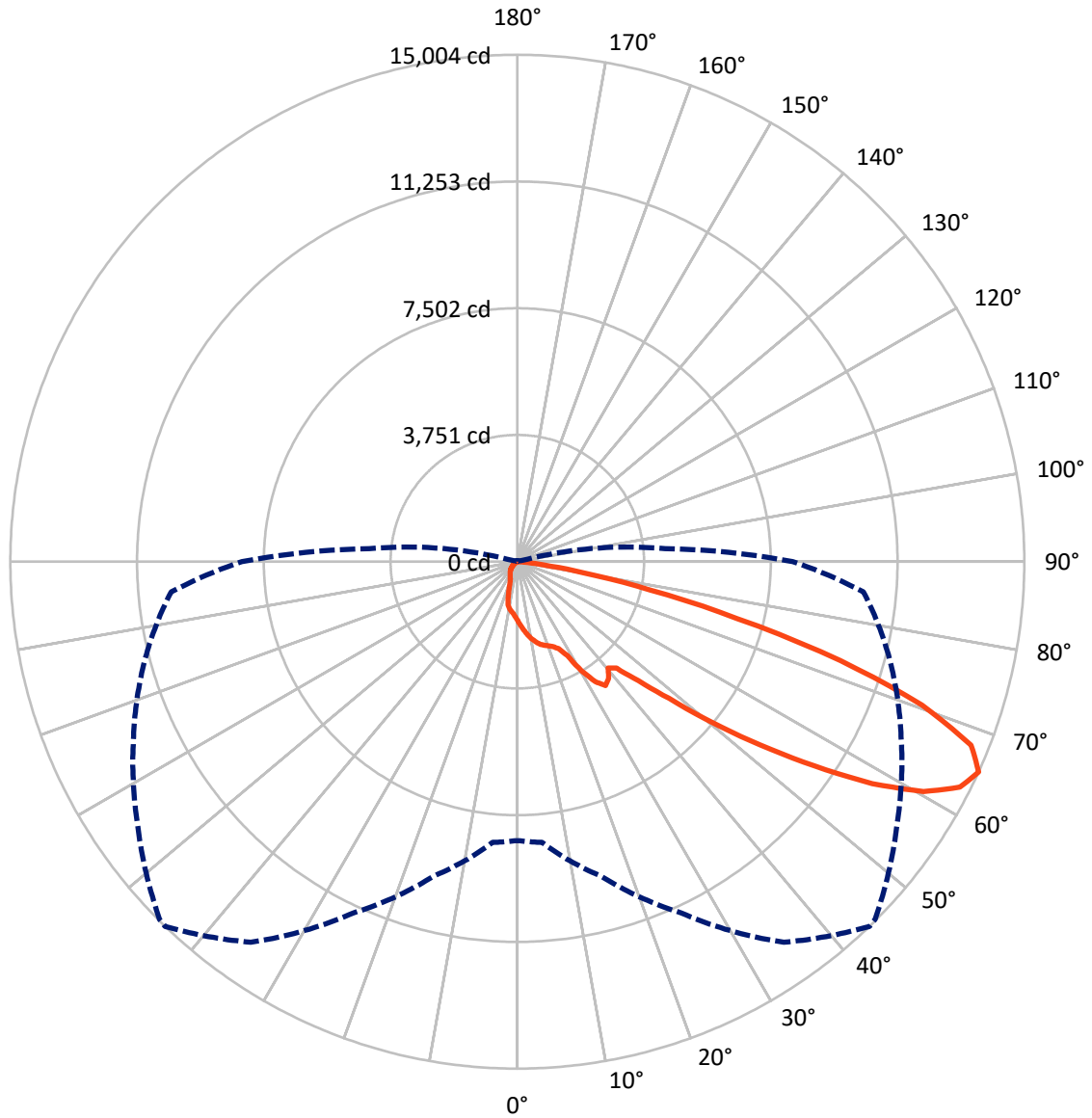
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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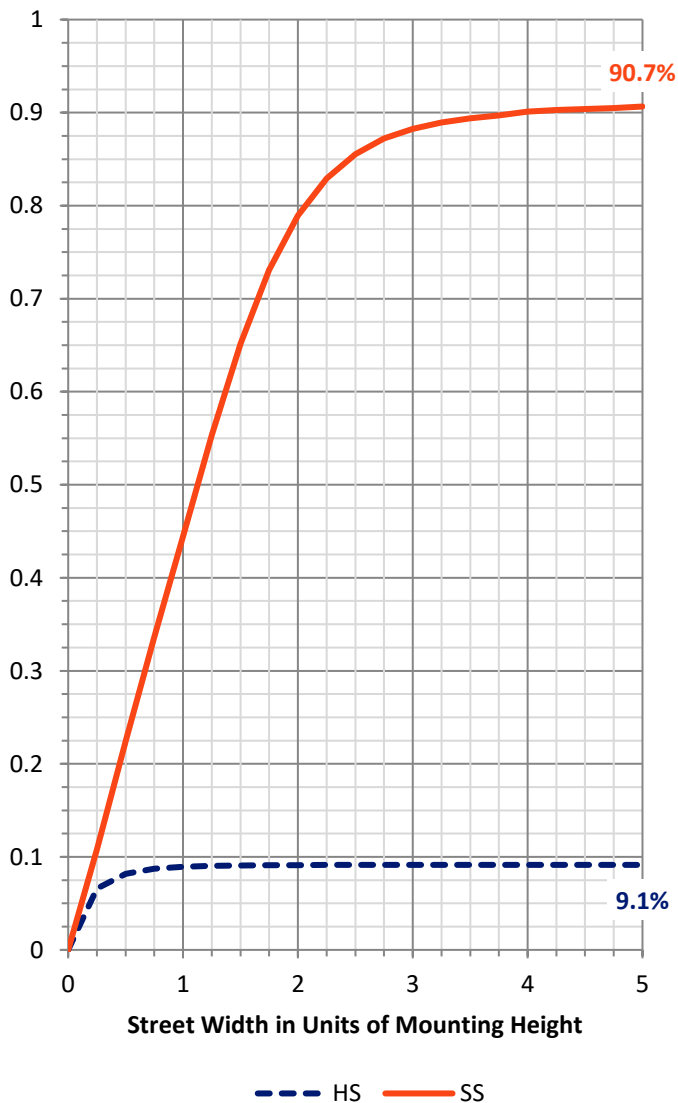
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.8	0.0	1726.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17015.2	0.0	17015.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	18742.0	0.0	18742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	0.9
10°-20°	522.1	2.8
20°-30°	885.4	4.7
30°-40°	1472.1	7.9
40°-50°	2570.3	13.7
50°-60°	5021.5	26.8
60°-70°	5826.1	31.1
70°-80°	2121.6	11.3
80°-90°	149.5	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°	18742.0	100.0
0°-180°	18742.0	100.0



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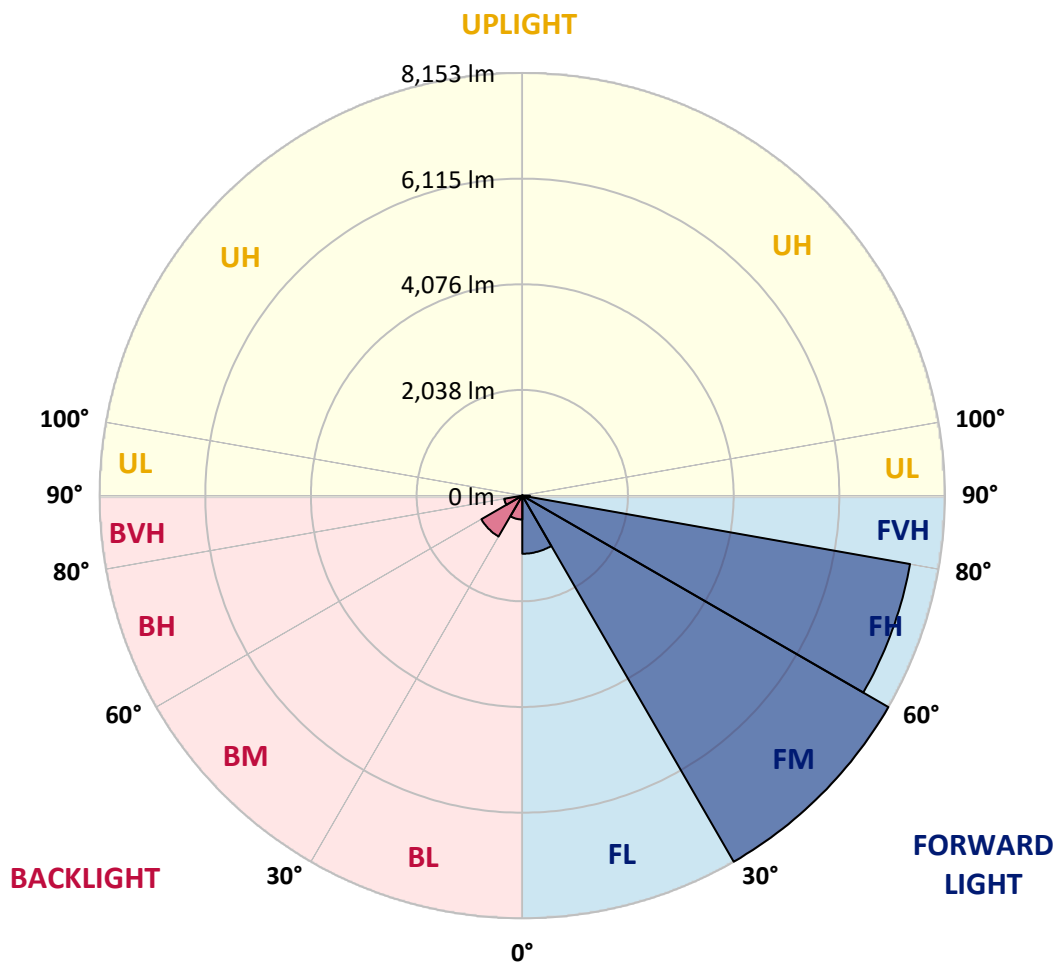
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.9	6.0			
FM (30°-60°)	8152.8	43.5			
FH (60°-80°)	7594.0	40.5			G4/12000
FVH (80°-90°)	147.5	0.8			G2/225
BL (0°-30°)	460.1	2.5	B1/500		
BM (30°-60°)	911.1	4.9	B1/1000		
BH (60°-80°)	353.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3
2.5°	1963.4	1954.8	1950.5	1927.6	1910.4	1889.0	1889.0	1861.8	1830.2	1795.9	1764.4
5°	2182.5	2168.2	2149.6	2129.6	2089.5	2032.2	2032.2	1974.9	1909.0	1850.3	1785.9
7.5°	2393.1	2380.2	2348.7	2310.0	2244.1	2184.0	2179.7	2096.6	2017.9	1929.1	1837.4
10°	2577.8	2567.8	2540.6	2466.1	2397.4	2318.6	2317.2	2224.1	2132.4	2023.6	1910.4
12.5°	2706.7	2708.1	2672.3	2600.7	2511.9	2437.5	2431.7	2340.1	2244.1	2126.7	1987.8
15°	2798.4	2798.4	2761.1	2680.9	2600.7	2534.9	2529.1	2448.9	2350.1	2222.6	2072.3
17.5°	2824.1	2832.7	2792.6	2721.0	2656.6	2599.3	2597.9	2530.6	2451.8	2328.6	2158.2
20°	2814.1	2822.7	2791.2	2735.3	2691.0	2658.0	2653.7	2626.5	2553.5	2437.5	2249.9
22.5°	2792.6	2801.2	2778.3	2745.4	2723.9	2733.9	2726.8	2749.7	2711.0	2570.7	2358.7
25°	2796.9	2805.5	2788.3	2769.7	2788.3	2849.9	2868.5	2967.4	2933.0	2739.6	2476.1
27.5°	2931.5	2948.7	2924.4	2933.0	2998.9	3142.1	3177.9	3348.3	3196.5	2954.5	2659.4
30°	3230.9	3219.4	3173.6	3215.1	3444.2	3747.9	3737.8	3710.6	3472.9	3202.2	2877.1
32.5°	3503.0	3492.9	3490.1	3669.1	4084.4	4231.9	4224.8	3961.2	3720.6	3485.8	3091.9
35°	3613.2	3574.6	3566.0	3999.9	4694.5	4499.7	4455.3	4064.4	4021.4	3795.1	3311.1
37.5°	3945.5	3918.3	3785.1	4054.3	4451.0	4386.6	4352.2	4241.9	4342.2	4068.7	3558.8
40°	4630.0	4554.1	4433.8	4170.3	4105.9	4133.1	4167.5	4469.6	4721.7	4442.4	3889.6
42.5°	5480.7	5463.5	5240.1	4748.9	4266.3	4303.5	4347.9	4945.1	5267.3	5005.3	4429.5
45°	6501.8	6526.2	6203.9	5623.9	4990.9	5022.4	5086.9	5646.8	6006.3	5880.3	5278.8
47.5°	7429.8	7411.2	7302.4	6699.5	6115.1	6045.0	6149.5	6547.6	7028.8	7048.9	6332.8
50°	8363.6	8462.4	8300.6	8064.3	7630.3	7482.8	7444.2	7638.9	8372.2	8276.2	7598.8
52.5°	9705.5	9757.0	9453.4	9393.3	9492.1	9013.8	8975.1	9022.4	9678.3	9348.9	8546.9
55°	10549.0	10518.9	10405.8	10875.5	11266.5	10669.3	10620.6	10430.1	10762.4	10106.5	9459.1
57.5°	10815.4	10858.3	11121.8	11971.1	12896.2	12389.3	12300.5	11759.1	11544.3	10812.5	10298.4
60°	10696.5	10775.3	11343.8	12606.9	13890.1	13814.2	13738.3	12828.9	12105.7	11402.5	10887.0
62.5°	9850.1	9960.4	10869.8	12493.8	14226.7	14700.7	14606.2	13496.3	12479.5	11689.0	10990.1
65°	8254.7	8336.4	9642.5	11467.0	13748.3	15004.3	14969.9	13705.4	12538.2	11426.9	10284.0
67.5°	5884.6	6162.4	7372.5	9663.9	12333.4	14485.9	14544.6	13454.8	11986.8	10294.1	8516.8
70°	3699.2	3888.2	4756.1	6918.6	9887.4	12708.6	12902.0	12307.6	10402.9	8024.2	5701.3
72.5°	1764.4	1904.7	2523.4	4379.4	6978.7	9999.1	10152.3	10103.6	8044.2	5055.4	2941.6
75°	786.2	839.2	1204.4	2235.5	4505.4	6720.9	7117.6	7183.5	5026.7	2473.3	1144.3
77.5°	401.0	402.4	564.3	1082.7	2249.9	4009.9	4088.7	4319.3	2725.3	1089.8	398.1
80°	213.4	227.7	299.3	511.3	1167.2	1974.9	1964.9	2159.6	1208.7	534.2	133.2
82.5°	96.0	106.0	169.0	267.8	570.0	749.0	807.7	883.6	518.4	340.8	58.7
85°	28.6	34.4	83.1	134.6	206.2	216.3	242.0	312.2	293.6	242.0	30.1
87.5°	4.3	4.3	34.4	37.2	30.1	38.7	40.1	44.4	94.5	88.8	15.8
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°	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3	1744.3
2.5°	1747.2	1737.2	1701.4	1671.3	1645.5	1629.8	1611.1	1599.7	1593.9	1589.7	1591.1
5°	1754.3	1730.0	1668.4	1619.7	1582.5	1542.4	1515.2	1499.4	1492.3	1480.8	1480.8
7.5°	1794.4	1755.8	1669.9	1595.4	1530.9	1476.5	1425.0	1406.3	1393.5	1390.6	1387.7
10°	1851.7	1803.0	1685.6	1582.5	1490.8	1416.4	1343.3	1278.9	1228.8	1198.7	1194.4
12.5°	1923.3	1853.2	1710.0	1573.9	1456.5	1324.7	1131.4	1001.1	913.7	886.5	890.8
15°	1989.2	1913.3	1734.3	1566.7	1393.5	1098.4	879.3	730.4	686.0	681.7	683.1
17.5°	2068.0	1977.8	1762.9	1556.7	1220.2	839.2	653.0	612.9	621.5	635.9	634.4
20°	2149.6	2046.5	1797.3	1496.6	973.8	631.6	577.1	581.4	594.3	607.2	610.1
22.5°	2237.0	2125.3	1837.4	1351.9	743.3	549.9	547.1	552.8	565.7	580.0	582.9
25°	2357.3	2224.1	1867.5	1162.9	562.8	508.4	514.1	524.2	535.6	551.4	554.2
27.5°	2511.9	2357.3	1883.2	916.6	486.9	471.2	472.6	486.9	501.2	515.6	515.6
30°	2712.4	2516.2	1851.7	693.1	449.7	435.4	429.6	438.2	456.8	471.2	472.6
32.5°	2891.4	2666.6	1768.7	529.9	422.5	402.4	388.1	389.5	396.7	405.3	406.7
35°	3070.5	2812.7	1626.9	445.4	393.8	370.9	349.4	338.0	332.3	328.0	332.3
37.5°	3299.6	2994.6	1437.8	405.3	369.5	340.8	310.8	286.4	266.4	253.5	256.3
40°	3594.6	3246.6	1214.4	379.5	346.6	312.2	272.1	240.6	206.2	194.8	189.0
42.5°	4081.5	3629.0	979.6	358.0	323.7	282.1	232.0	189.0	157.5	146.1	148.9
45°	4850.6	4111.6	754.7	335.1	300.7	249.2	194.8	148.9	123.2	117.4	120.3
47.5°	5870.3	4736.0	581.4	309.3	272.1	213.4	153.2	117.4	101.7	100.2	98.8
50°	6829.8	5317.5	485.5	280.7	237.7	177.6	126.0	98.8	88.8	87.4	87.4
52.5°	7697.6	5734.2	395.3	247.8	200.5	146.1	106.0	87.4	78.8	74.5	74.5
55°	8469.6	6006.3	320.8	207.7	157.5	116.0	91.7	78.8	68.7	63.0	61.6
57.5°	9052.4	6039.2	240.6	166.1	117.4	90.2	78.8	68.7	57.3	50.1	47.3
60°	9301.6	5754.3	177.6	126.0	87.4	71.6	63.0	55.9	43.0	35.8	34.4
62.5°	9051.0	5200.0	131.8	96.0	67.3	53.0	44.4	41.5	30.1	21.5	20.0
65°	8153.1	4399.5	104.5	73.0	50.1	38.7	28.6	27.2	18.6	10.0	8.6
67.5°	6531.9	3445.7	83.1	54.4	35.8	25.8	18.6	17.2	10.0	2.9	2.9
70°	4247.7	2202.6	67.3	40.1	22.9	17.2	11.5	8.6	5.7	1.4	0.0
72.5°	2100.9	1029.7	54.4	31.5	15.8	8.6	4.3	2.9	4.3	0.0	0.0
75°	814.9	366.6	40.1	21.5	8.6	4.3	2.9	0.0	1.4	0.0	0.0
77.5°	270.7	121.7	24.3	11.5	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	100.2	47.3	12.9	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	40.1	18.6	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	11.5	5.7	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	8.6	5.7	4.3	2.9	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)