

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: P453494

Luminaire Tested: **GALN-SA4C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453494
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-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 18323 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

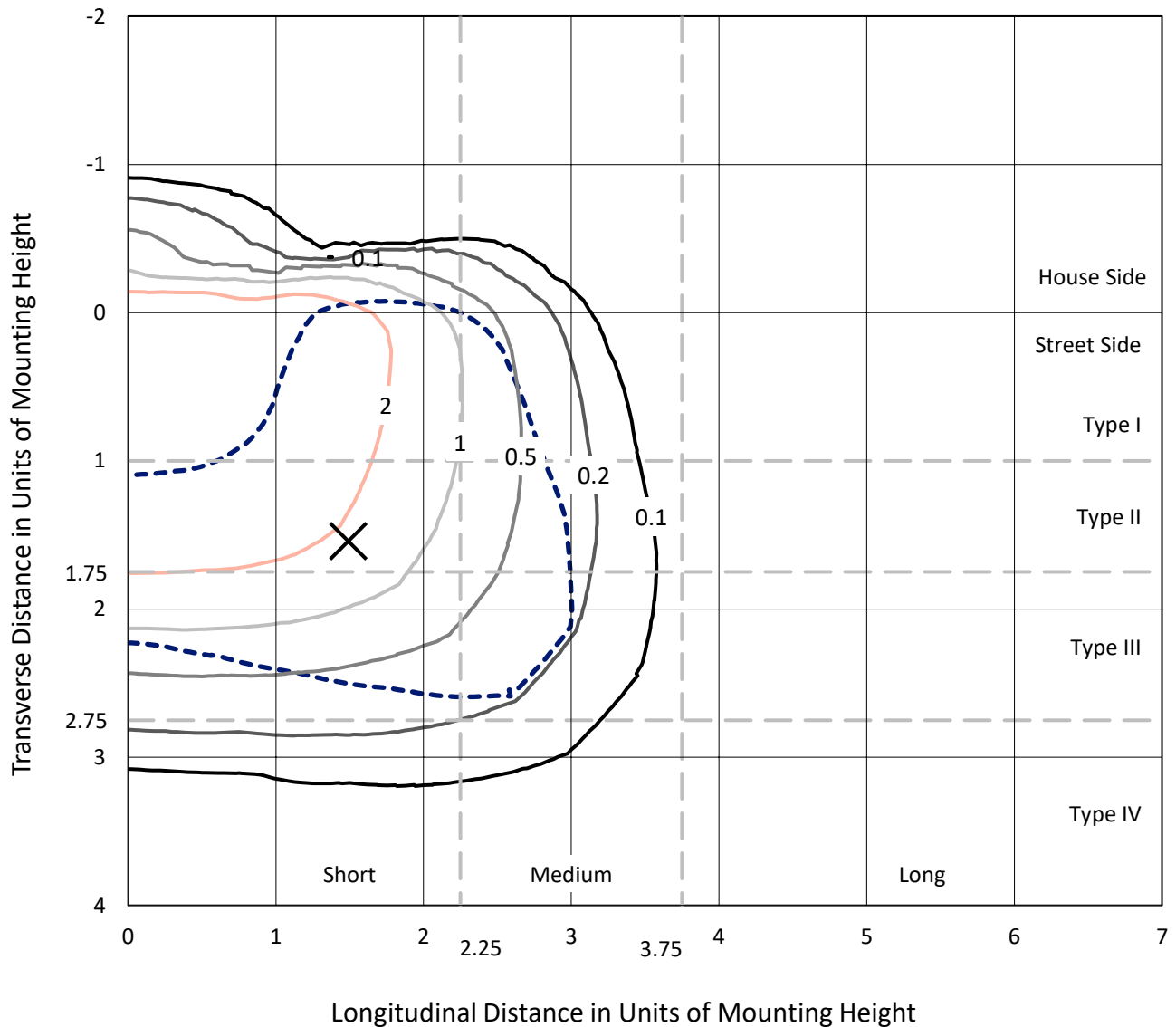
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

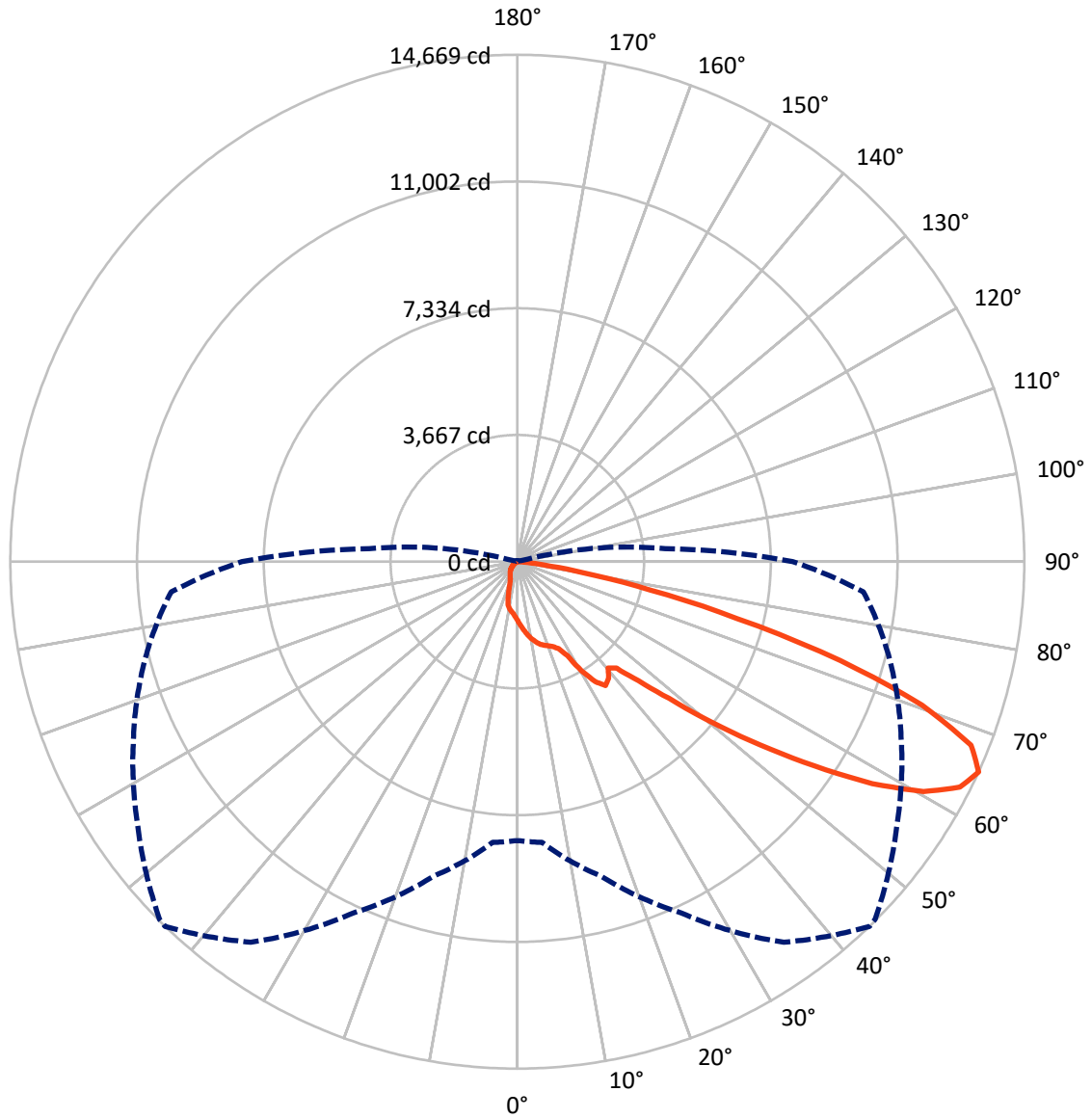
✕ Max cd
 - - - 1/2 Max cd



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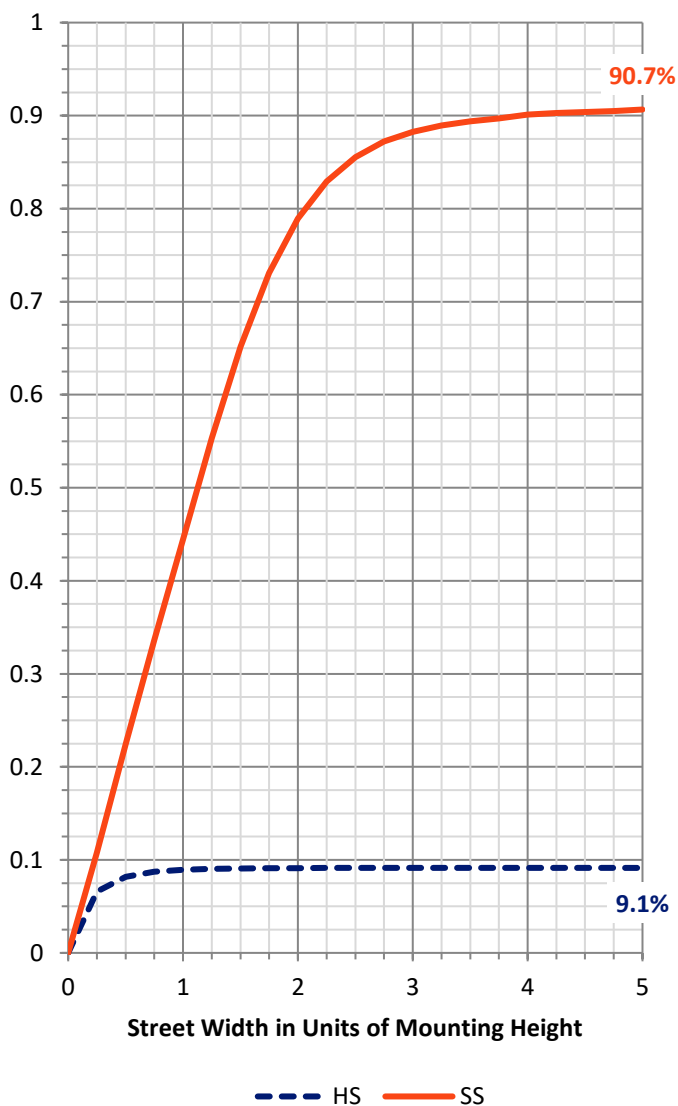
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.2	0.0	1688.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16634.8	0.0	16634.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	18323.0	0.0	18323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	0.9
10°-20°	510.5	2.8
20°-30°	865.6	4.7
30°-40°	1439.2	7.9
40°-50°	2512.8	13.7
50°-60°	4909.2	26.8
60°-70°	5695.8	31.1
70°-80°	2074.1	11.3
80°-90°	146.1	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°	18323.0	100.0
0°-180°	18323.0	100.0

Coefficient of Utilization



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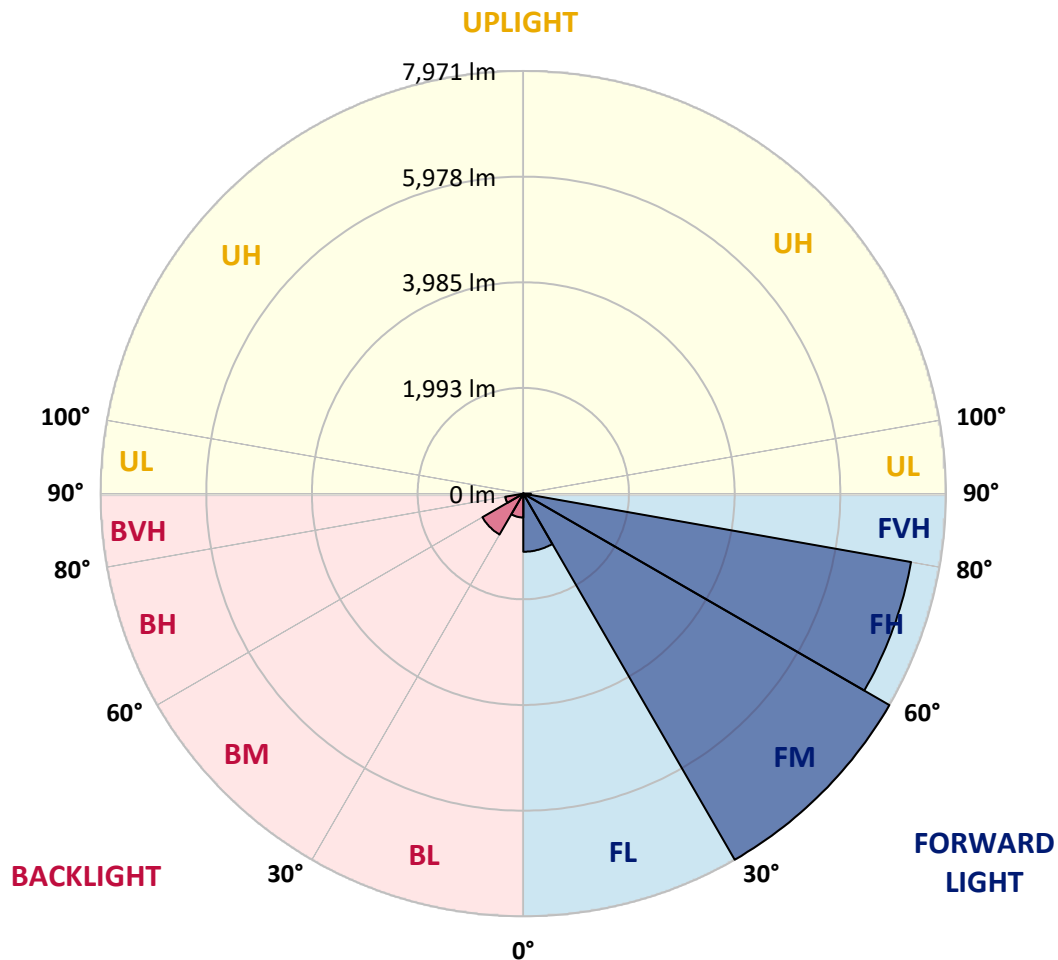
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.9	6.0			
FM (30°-60°)	7970.5	43.5			
FH (60°-80°)	7424.2	40.5			G3/7500
FVH (80°-90°)	144.2	0.8			G2/225
BL (0°-30°)	449.8	2.5	B1/500		
BM (30°-60°)	890.7	4.9	B1/1000		
BH (60°-80°)	345.7	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°	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1919.5	1911.1	1906.9	1884.5	1867.7	1846.7	1846.7	1820.1	1789.3	1755.7	1724.9
5°	2133.8	2119.8	2101.6	2082.0	2042.7	1986.7	1986.7	1930.7	1866.3	1808.9	1745.9
7.5°	2339.6	2327.0	2296.2	2258.4	2194.0	2135.2	2131.0	2049.8	1972.7	1885.9	1796.3
10°	2520.2	2510.4	2483.8	2411.0	2343.8	2266.8	2265.4	2174.4	2084.8	1978.3	1867.7
12.5°	2646.2	2647.6	2612.6	2542.6	2455.8	2383.0	2377.4	2287.8	2194.0	2079.2	1943.3
15°	2735.8	2735.8	2699.4	2621.0	2542.6	2478.2	2472.6	2394.2	2297.6	2173.0	2025.9
17.5°	2761.0	2769.4	2730.2	2660.2	2597.2	2541.2	2539.8	2474.0	2397.0	2276.6	2110.0
20°	2751.2	2759.6	2728.8	2674.2	2630.8	2598.6	2594.4	2567.8	2496.4	2383.0	2199.6
22.5°	2730.2	2738.6	2716.2	2684.0	2663.0	2672.8	2665.8	2688.2	2650.4	2513.2	2306.0
25°	2734.4	2742.8	2726.0	2707.8	2726.0	2786.2	2804.4	2901.0	2867.4	2678.4	2420.8
27.5°	2866.0	2882.8	2859.0	2867.4	2931.8	3071.8	3106.8	3273.4	3125.0	2888.4	2600.0
30°	3158.6	3147.4	3102.6	3143.2	3367.2	3664.1	3654.3	3627.7	3395.2	3130.6	2812.8
32.5°	3424.7	3414.9	3412.0	3587.1	3993.1	4137.3	4130.3	3872.7	3637.5	3407.8	3022.8
35°	3532.5	3494.7	3486.3	3910.5	4589.5	4399.1	4355.7	3973.5	3931.5	3710.3	3237.0
37.5°	3857.3	3830.7	3700.5	3963.7	4351.5	4288.5	4254.9	4147.1	4245.1	3977.7	3479.3
40°	4526.5	4452.3	4334.7	4077.1	4014.1	4040.7	4074.3	4369.7	4616.1	4343.1	3802.7
42.5°	5358.2	5341.4	5123.0	4642.7	4170.9	4207.3	4250.7	4834.6	5149.6	4893.4	4330.5
45°	6356.5	6380.3	6065.2	5498.2	4879.4	4910.2	4973.2	5520.6	5872.0	5748.8	5160.8
47.5°	7263.7	7245.5	7139.1	6549.7	5978.4	5909.8	6012.0	6401.3	6871.7	6891.3	6191.3
50°	8176.6	8273.2	8115.0	7884.0	7459.7	7315.5	7277.7	7468.1	8185.0	8091.2	7428.9
52.5°	9488.5	9538.9	9242.1	9183.3	9279.9	8812.2	8774.4	8820.6	9461.9	9139.9	8355.8
55°	10313.2	10283.8	10173.1	10632.4	11014.6	10430.8	10383.2	10196.9	10521.8	9880.5	9247.7
57.5°	10573.6	10615.6	10873.2	11703.5	12607.9	12112.3	12025.5	11496.2	11286.2	10570.8	10068.1
60°	10457.4	10534.4	11090.2	12325.1	13579.6	13505.4	13431.2	12542.1	11835.1	11147.6	10643.6
62.5°	9629.9	9737.7	10626.8	12214.5	13908.6	14372.1	14279.6	13194.6	12200.5	11427.6	10744.4
65°	8070.2	8150.0	9426.9	11210.6	13441.0	14668.9	14635.3	13399.0	12257.9	11171.4	10054.1
67.5°	5753.0	6024.6	7207.7	9447.9	12057.7	14162.0	14219.4	13154.0	11718.9	10063.9	8326.4
70°	3616.5	3801.3	4649.7	6763.9	9666.3	12424.5	12613.5	12032.5	10170.3	7844.8	5573.8
72.5°	1724.9	1862.1	2467.0	4281.5	6822.7	9775.5	9925.3	9877.7	7864.4	4942.4	2875.8
75°	768.7	820.5	1177.5	2185.6	4404.7	6570.7	6958.5	7022.9	4914.4	2418.0	1118.7
77.5°	392.0	393.4	551.6	1058.5	2199.6	3920.3	3997.3	4222.7	2664.4	1065.5	389.2
80°	208.6	222.6	292.6	499.8	1141.1	1930.7	1920.9	2111.4	1181.7	522.2	130.2
82.5°	93.8	103.6	165.2	261.8	557.2	732.3	789.7	863.9	506.8	333.2	57.4
85°	28.0	33.6	81.2	131.6	201.6	211.4	236.6	305.2	287.0	236.6	29.4
87.5°	4.2	4.2	33.6	36.4	29.4	37.8	39.2	43.4	92.4	86.8	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°	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1708.1	1698.3	1663.3	1633.9	1608.7	1593.3	1575.1	1563.9	1558.3	1554.1	1555.5
5°	1715.1	1691.3	1631.1	1583.5	1547.1	1507.9	1481.3	1465.9	1458.9	1447.7	1447.7
7.5°	1754.3	1716.5	1632.5	1559.7	1496.7	1443.5	1393.1	1374.9	1362.3	1359.5	1356.7
10°	1810.3	1762.7	1647.9	1547.1	1457.5	1384.7	1313.3	1250.3	1201.3	1171.9	1167.7
12.5°	1880.3	1811.7	1671.7	1538.7	1423.9	1295.1	1106.1	978.7	893.3	866.7	870.9
15°	1944.7	1870.5	1695.5	1531.7	1362.3	1073.9	859.7	714.1	670.6	666.4	667.8
17.5°	2021.7	1933.5	1723.5	1521.9	1192.9	820.5	638.4	599.2	607.6	621.6	620.2
20°	2101.6	2000.7	1757.1	1463.1	952.1	617.4	564.2	568.4	581.0	593.6	596.4
22.5°	2187.0	2077.8	1796.3	1321.7	726.7	537.6	534.8	540.4	553.0	567.0	569.8
25°	2304.6	2174.4	1825.7	1136.9	550.2	497.0	502.6	512.4	523.6	539.0	541.8
27.5°	2455.8	2304.6	1841.1	896.1	476.0	460.6	462.0	476.0	490.0	504.0	504.0
30°	2651.8	2460.0	1810.3	677.6	439.6	425.6	420.0	428.4	446.6	460.6	462.0
32.5°	2826.8	2607.0	1729.1	518.0	413.0	393.4	379.4	380.8	387.8	396.2	397.6
35°	3001.8	2749.8	1590.5	435.4	385.0	362.6	341.6	330.4	324.8	320.6	324.8
37.5°	3225.8	2927.6	1405.7	396.2	361.2	333.2	303.8	280.0	260.4	247.8	250.6
40°	3514.3	3174.0	1187.3	371.0	338.8	305.2	266.0	235.2	201.6	190.4	184.8
42.5°	3990.3	3547.9	957.7	350.0	316.4	275.8	226.8	184.8	154.0	142.8	145.6
45°	4742.1	4019.7	737.9	327.6	294.0	243.6	190.4	145.6	120.4	114.8	117.6
47.5°	5739.0	4630.1	568.4	302.4	266.0	208.6	149.8	114.8	99.4	98.0	96.6
50°	6677.1	5198.6	474.6	274.4	232.4	173.6	123.2	96.6	86.8	85.4	85.4
52.5°	7525.6	5606.0	386.4	242.2	196.0	142.8	103.6	85.4	77.0	72.8	72.8
55°	8280.2	5872.0	313.6	203.0	154.0	113.4	89.6	77.0	67.2	61.6	60.2
57.5°	8850.0	5904.2	235.2	162.4	114.8	88.2	77.0	67.2	56.0	49.0	46.2
60°	9093.7	5625.6	173.6	123.2	85.4	70.0	61.6	54.6	42.0	35.0	33.6
62.5°	8848.6	5083.8	128.8	93.8	65.8	51.8	43.4	40.6	29.4	21.0	19.6
65°	7970.8	4301.1	102.2	71.4	49.0	37.8	28.0	26.6	18.2	9.8	8.4
67.5°	6385.9	3368.6	81.2	53.2	35.0	25.2	18.2	16.8	9.8	2.8	2.8
70°	4152.7	2153.4	65.8	39.2	22.4	16.8	11.2	8.4	5.6	1.4	0.0
72.5°	2054.0	1006.7	53.2	30.8	15.4	8.4	4.2	2.8	4.2	0.0	0.0
75°	796.7	358.4	39.2	21.0	8.4	4.2	2.8	0.0	1.4	0.0	0.0
77.5°	264.6	119.0	23.8	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	98.0	46.2	12.6	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.2	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)