

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: P453465

Luminaire Tested: **GALN-SA4C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453465
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-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 16826 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

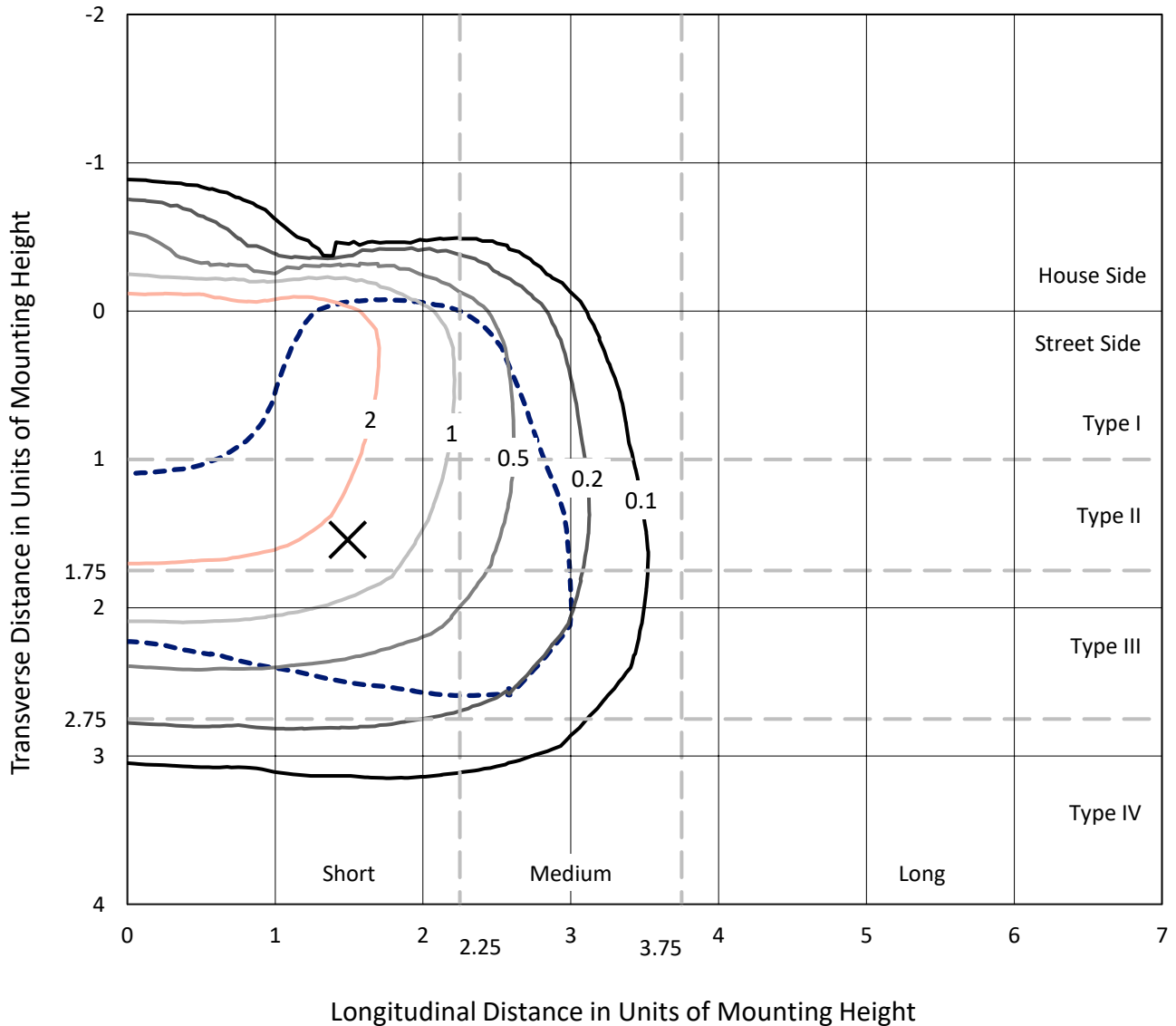
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

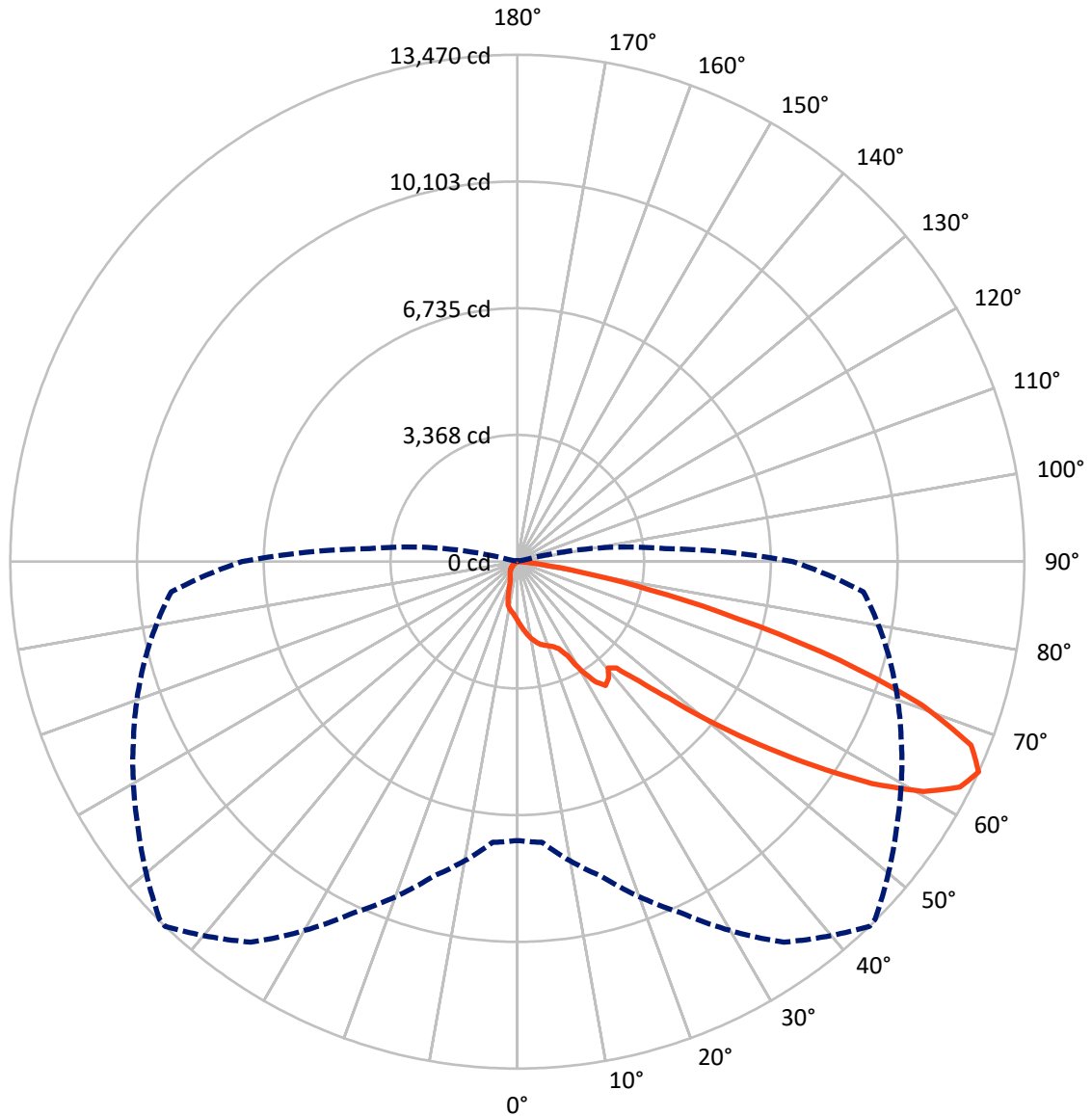
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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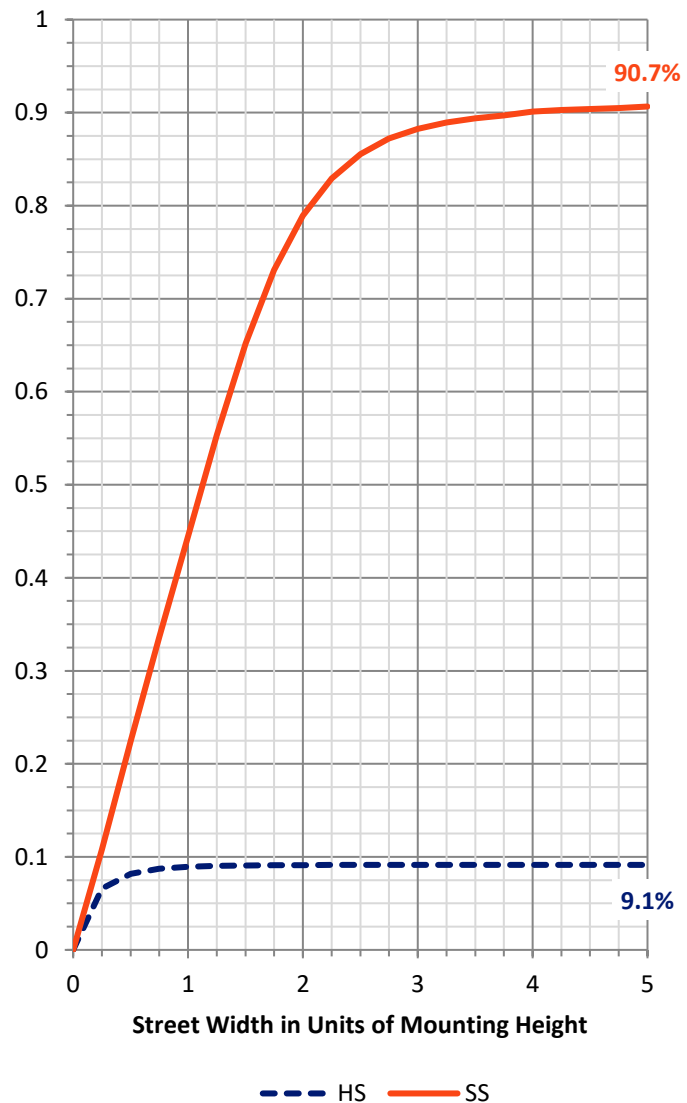
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.3	0.0	1550.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	15275.8	0.0	15275.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	16826.0	0.0	16826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	0.9
10°-20°	468.8	2.8
20°-30°	794.9	4.7
30°-40°	1321.6	7.9
40°-50°	2307.5	13.7
50°-60°	4508.1	26.8
60°-70°	5230.5	31.1
70°-80°	1904.7	11.3
80°-90°	134.2	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°	16826.0	100.0
0°-180°	16826.0	100.0

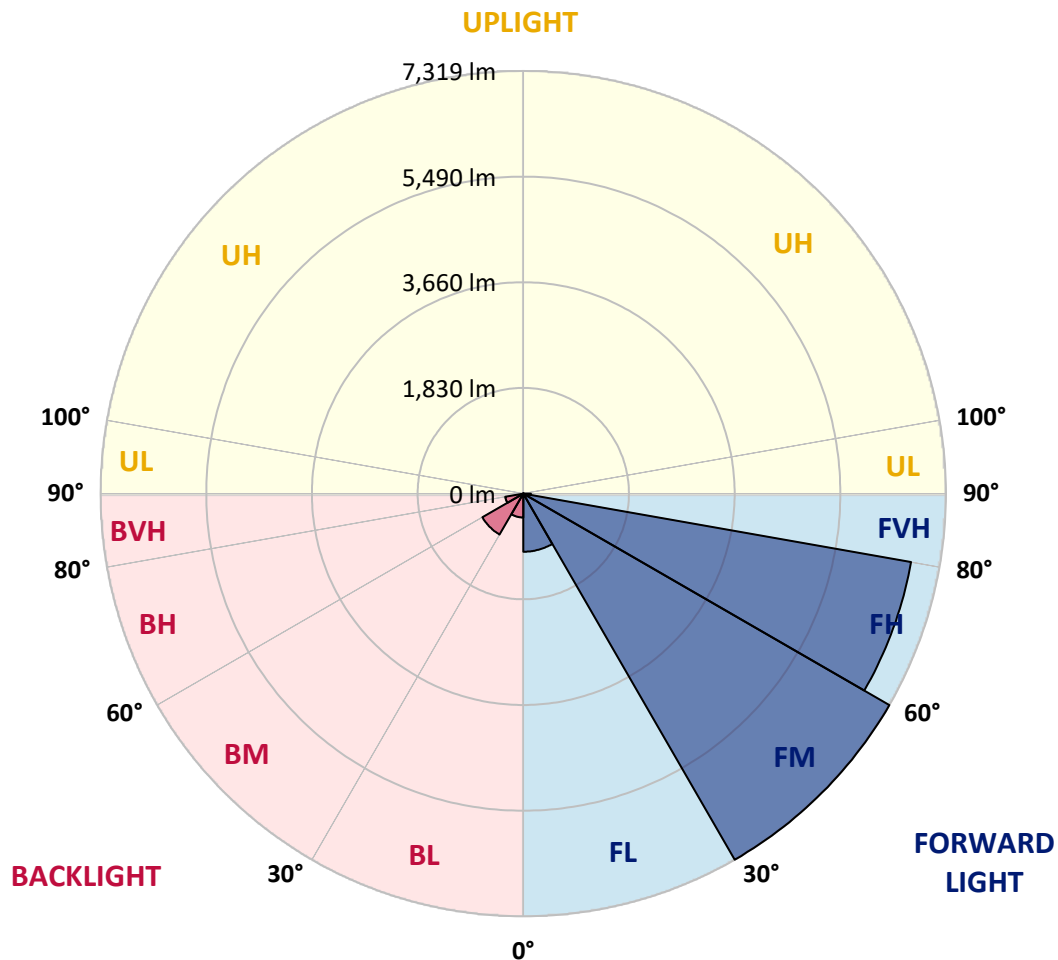


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.4	6.0			
FM (30°-60°)	7319.3	43.5			
FH (60°-80°)	6817.7	40.5			G3/7500
FVH (80°-90°)	132.4	0.8			G2/225
BL (0°-30°)	413.0	2.5	B1/500		
BM (30°-60°)	817.9	4.9	B1/1000		
BH (60°-80°)	317.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0
2.5°	1762.7	1755.0	1751.1	1730.6	1715.1	1695.9	1695.9	1671.4	1643.1	1612.3	1584.0
5°	1959.4	1946.6	1929.9	1911.9	1875.9	1824.4	1824.4	1773.0	1713.9	1661.1	1603.3
7.5°	2148.4	2136.9	2108.6	2073.9	2014.7	1960.7	1956.9	1882.3	1811.6	1731.9	1649.6
10°	2314.3	2305.3	2280.9	2214.0	2152.3	2081.6	2080.3	1996.7	1914.4	1816.7	1715.1
12.5°	2430.0	2431.3	2399.1	2334.9	2255.1	2188.3	2183.1	2100.9	2014.7	1909.3	1784.6
15°	2512.3	2512.3	2478.9	2406.9	2334.9	2275.7	2270.6	2198.6	2109.9	1995.4	1860.4
17.5°	2535.4	2543.1	2507.1	2442.9	2385.0	2333.6	2332.3	2271.9	2201.1	2090.6	1937.6
20°	2526.4	2534.1	2505.9	2455.7	2415.9	2386.3	2382.4	2358.0	2292.4	2188.3	2019.9
22.5°	2507.1	2514.9	2494.3	2464.7	2445.4	2454.4	2448.0	2468.6	2433.9	2307.9	2117.6
25°	2511.0	2518.7	2503.3	2486.6	2503.3	2558.6	2575.3	2664.0	2633.1	2459.6	2223.0
27.5°	2631.9	2647.3	2625.4	2633.1	2692.3	2820.9	2853.0	3006.0	2869.7	2652.4	2387.6
30°	2900.6	2890.3	2849.1	2886.4	3092.1	3364.7	3355.7	3331.3	3117.9	2874.9	2583.0
32.5°	3144.9	3135.9	3133.3	3294.0	3666.9	3799.3	3792.9	3556.3	3340.3	3129.4	2775.9
35°	3243.9	3209.1	3201.4	3591.0	4214.6	4039.7	3999.9	3648.9	3610.3	3407.1	2972.6
37.5°	3542.1	3517.7	3398.1	3639.9	3996.0	3938.1	3907.3	3808.3	3898.3	3652.7	3195.0
40°	4156.7	4088.6	3980.6	3744.0	3686.1	3710.6	3741.4	4012.7	4239.0	3988.3	3492.0
42.5°	4920.4	4905.0	4704.4	4263.4	3830.1	3863.6	3903.4	4439.6	4728.9	4493.6	3976.7
45°	5837.1	5859.0	5569.7	5049.0	4480.7	4509.0	4566.9	5069.6	5392.3	5279.1	4739.1
47.5°	6670.3	6653.6	6555.9	6014.6	5490.0	5427.0	5520.9	5878.3	6310.3	6328.3	5685.4
50°	7508.6	7597.3	7452.0	7239.9	6850.3	6717.9	6683.1	6858.0	7516.3	7430.1	6822.0
52.5°	8713.3	8759.6	8487.0	8433.0	8521.7	8092.3	8057.6	8100.0	8688.9	8393.1	7673.1
55°	9470.6	9443.6	9342.0	9763.7	10114.7	9578.6	9534.8	9363.8	9662.1	9073.3	8492.1
57.5°	9709.7	9748.3	9984.8	10747.3	11577.8	11122.7	11043.0	10557.0	10364.1	9707.1	9245.6
60°	9603.0	9673.7	10184.1	11318.1	12470.1	12402.0	12333.8	11517.4	10868.1	10236.8	9774.0
62.5°	8843.1	8942.1	9758.6	11216.6	12772.3	13197.8	13113.0	12116.6	11203.7	10494.0	9866.6
65°	7410.9	7484.1	8656.7	10294.7	12342.8	13470.4	13439.6	12304.3	11256.4	10258.7	9232.7
67.5°	5283.0	5532.4	6618.9	8676.0	11072.6	13005.0	13057.7	12079.3	10761.4	9241.7	7646.1
70°	3321.0	3490.7	4269.9	6211.3	8876.6	11409.4	11583.0	11049.4	9339.4	7203.9	5118.4
72.5°	1584.0	1710.0	2265.4	3931.7	6265.3	8976.9	9114.4	9070.7	7221.9	4538.6	2640.9
75°	705.9	753.4	1081.3	2007.0	4044.9	6033.9	6390.0	6449.1	4512.9	2220.4	1027.3
77.5°	360.0	361.3	506.6	972.0	2019.9	3600.0	3670.7	3877.7	2446.7	978.4	357.4
80°	191.6	204.4	268.7	459.0	1047.9	1773.0	1764.0	1938.9	1085.1	479.6	119.6
82.5°	86.1	95.1	151.7	240.4	511.7	672.4	725.1	793.3	465.4	306.0	52.7
85°	25.7	30.9	74.6	120.9	185.1	194.1	217.3	280.3	263.6	217.3	27.0
87.5°	3.9	3.9	30.9	33.4	27.0	34.7	36.0	39.9	84.9	79.7	14.1
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°	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0	1566.0
2.5°	1568.6	1559.6	1527.4	1500.4	1477.3	1463.1	1446.4	1436.1	1431.0	1427.1	1428.4
5°	1575.0	1553.1	1497.9	1454.1	1420.7	1384.7	1360.3	1346.1	1339.7	1329.4	1329.4
7.5°	1611.0	1576.3	1499.1	1432.3	1374.4	1325.6	1279.3	1262.6	1251.0	1248.4	1245.9
10°	1662.4	1618.7	1513.3	1420.7	1338.4	1271.6	1206.0	1148.1	1103.1	1076.1	1072.3
12.5°	1726.7	1663.7	1535.1	1413.0	1307.6	1189.3	1015.7	898.7	820.3	795.9	799.7
15°	1785.9	1717.7	1557.0	1406.6	1251.0	986.1	789.4	655.7	615.9	612.0	613.3
17.5°	1856.6	1775.6	1582.7	1397.6	1095.4	753.4	586.3	550.3	558.0	570.9	569.6
20°	1929.9	1837.3	1613.6	1343.6	874.3	567.0	518.1	522.0	533.6	545.1	547.7
22.5°	2008.3	1908.0	1649.6	1213.7	667.3	493.7	491.1	496.3	507.9	520.7	523.3
25°	2116.3	1996.7	1676.6	1044.0	505.3	456.4	461.6	470.6	480.9	495.0	497.6
27.5°	2255.1	2116.3	1690.7	822.9	437.1	423.0	424.3	437.1	450.0	462.9	462.9
30°	2435.1	2259.0	1662.4	622.3	403.7	390.9	385.7	393.4	410.1	423.0	424.3
32.5°	2595.9	2394.0	1587.9	475.7	379.3	361.3	348.4	349.7	356.1	363.9	365.1
35°	2756.6	2525.1	1460.6	399.9	353.6	333.0	313.7	303.4	298.3	294.4	298.3
37.5°	2962.3	2688.4	1290.9	363.9	331.7	306.0	279.0	257.1	239.1	227.6	230.1
40°	3227.1	2914.7	1090.3	340.7	311.1	280.3	244.3	216.0	185.1	174.9	169.7
42.5°	3664.3	3258.0	879.4	321.4	290.6	253.3	208.3	169.7	141.4	131.1	133.7
45°	4354.7	3691.3	677.6	300.9	270.0	223.7	174.9	133.7	110.6	105.4	108.0
47.5°	5270.1	4251.9	522.0	277.7	244.3	191.6	137.6	105.4	91.3	90.0	88.7
50°	6131.6	4773.9	435.9	252.0	213.4	159.4	113.1	88.7	79.7	78.4	78.4
52.5°	6910.7	5148.0	354.9	222.4	180.0	131.1	95.1	78.4	70.7	66.9	66.9
55°	7603.7	5392.3	288.0	186.4	141.4	104.1	82.3	70.7	61.7	56.6	55.3
57.5°	8127.0	5421.9	216.0	149.1	105.4	81.0	70.7	61.7	51.4	45.0	42.4
60°	8350.7	5166.0	159.4	113.1	78.4	64.3	56.6	50.1	38.6	32.1	30.9
62.5°	8125.7	4668.4	118.3	86.1	60.4	47.6	39.9	37.3	27.0	19.3	18.0
65°	7319.6	3949.7	93.9	65.6	45.0	34.7	25.7	24.4	16.7	9.0	7.7
67.5°	5864.1	3093.4	74.6	48.9	32.1	23.1	16.7	15.4	9.0	2.6	2.6
70°	3813.4	1977.4	60.4	36.0	20.6	15.4	10.3	7.7	5.1	1.3	0.0
72.5°	1886.1	924.4	48.9	28.3	14.1	7.7	3.9	2.6	3.9	0.0	0.0
75°	731.6	329.1	36.0	19.3	7.7	3.9	2.6	0.0	1.3	0.0	0.0
77.5°	243.0	109.3	21.9	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	90.0	42.4	11.6	6.4	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	36.0	16.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	10.3	5.1	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	7.7	5.1	3.9	2.6	1.3	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)