

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: P652350

Luminaire Tested: **GALN-SA4B-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14152.3 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

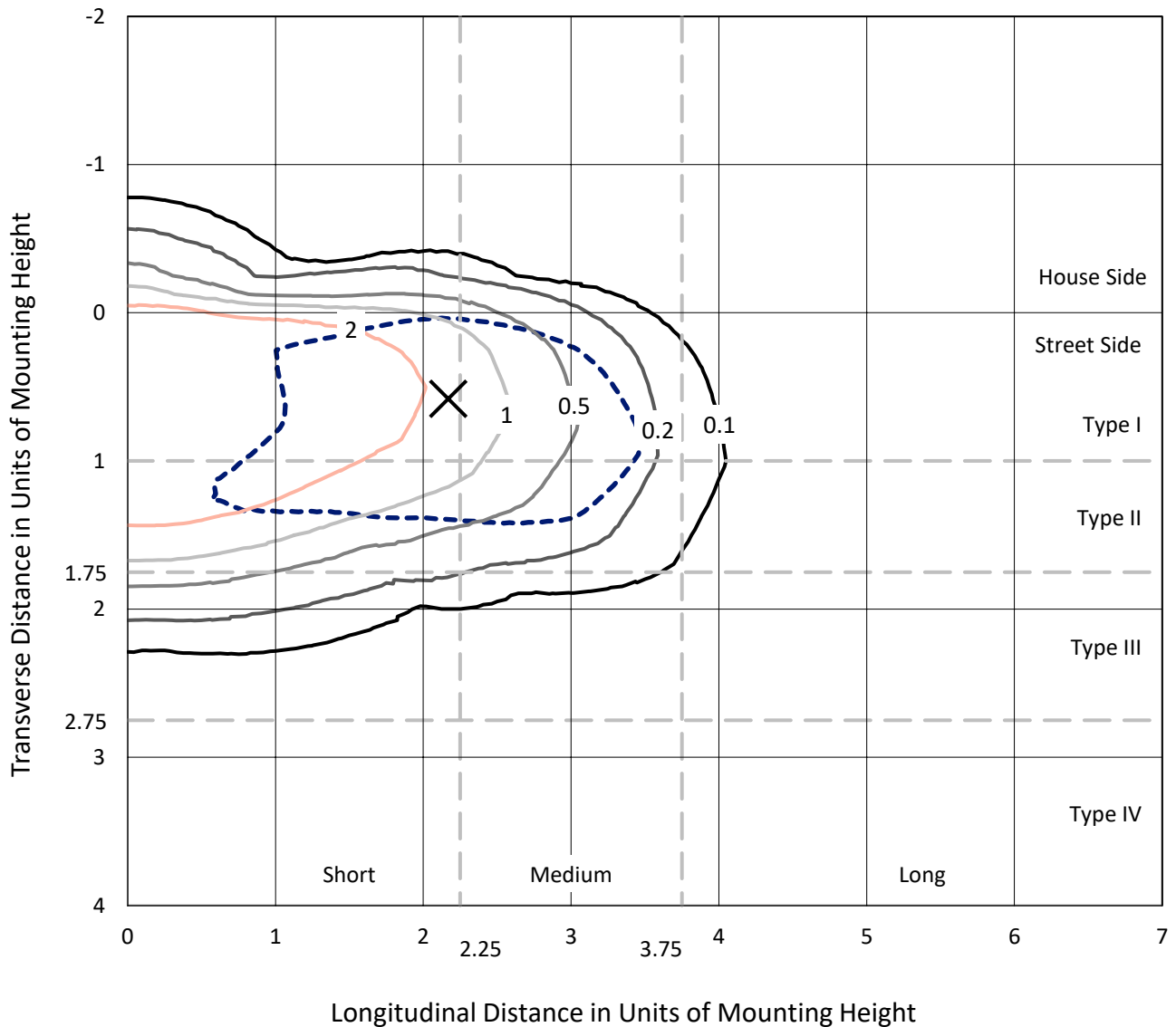
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

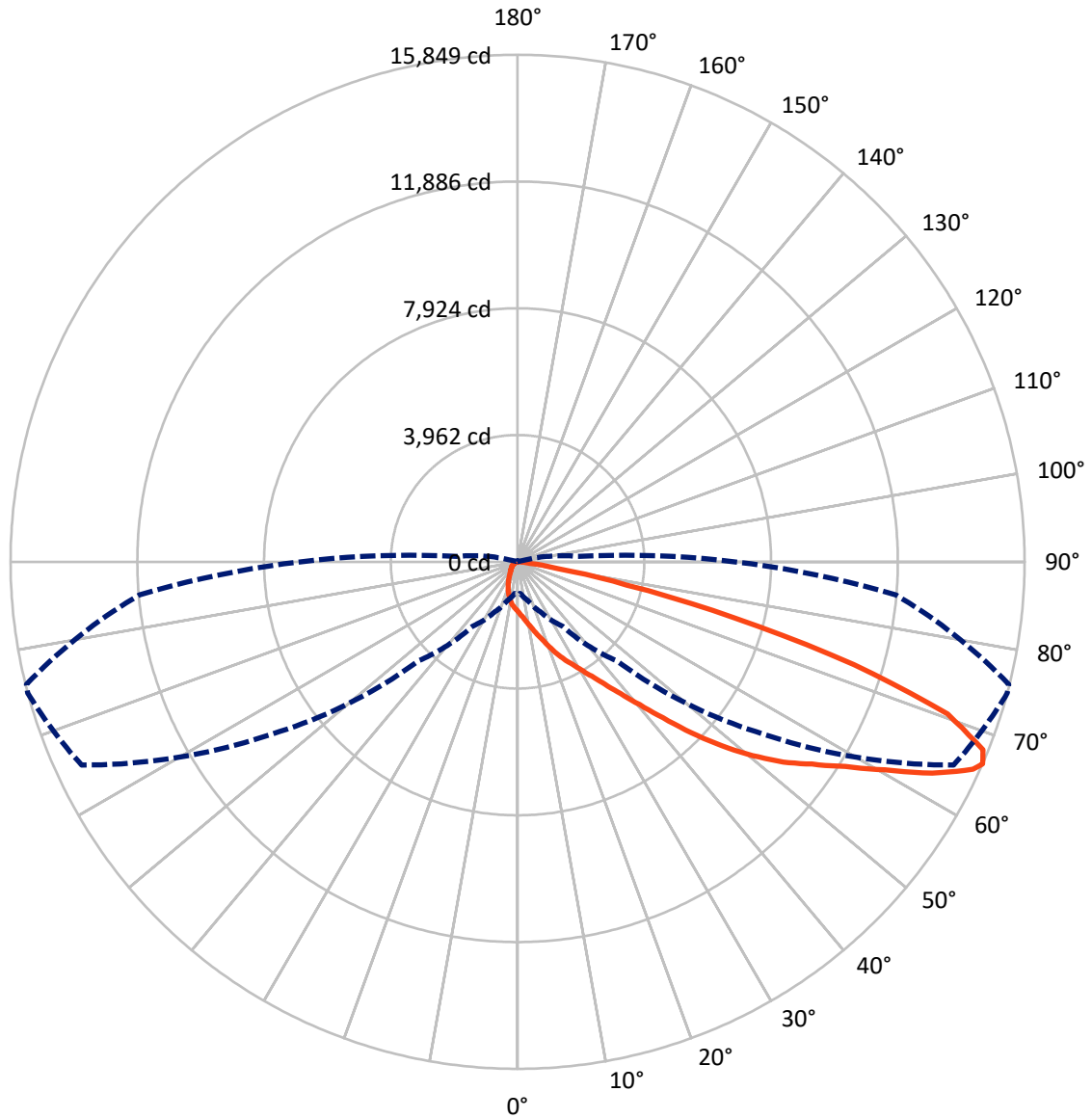
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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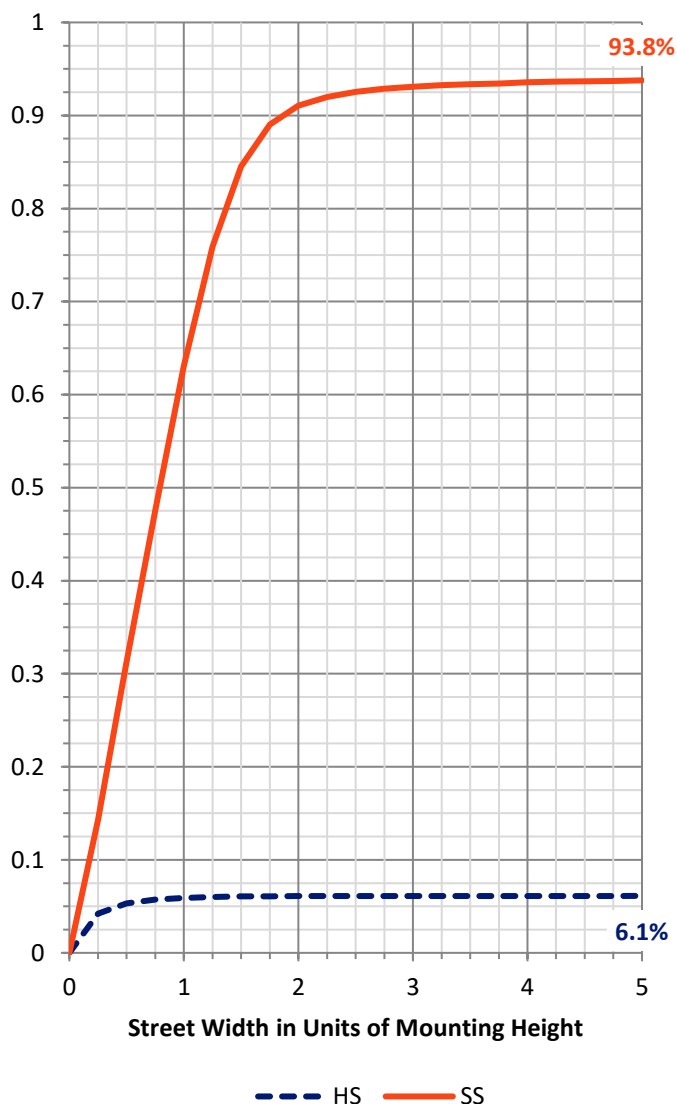
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.7	0.0	873.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13278.7	0.0	13278.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	14152.3	0.0	14152.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.1
10°-20°	439.3	3.1
20°-30°	758.6	5.4
30°-40°	1368.4	9.7
40°-50°	2472.1	17.5
50°-60°	3854.0	27.2
60°-70°	3661.1	25.9
70°-80°	1372.1	9.7
80°-90°	77.4	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°	14152.3	100.0
0°-180°	14152.3	100.0

Coefficient of Utilization

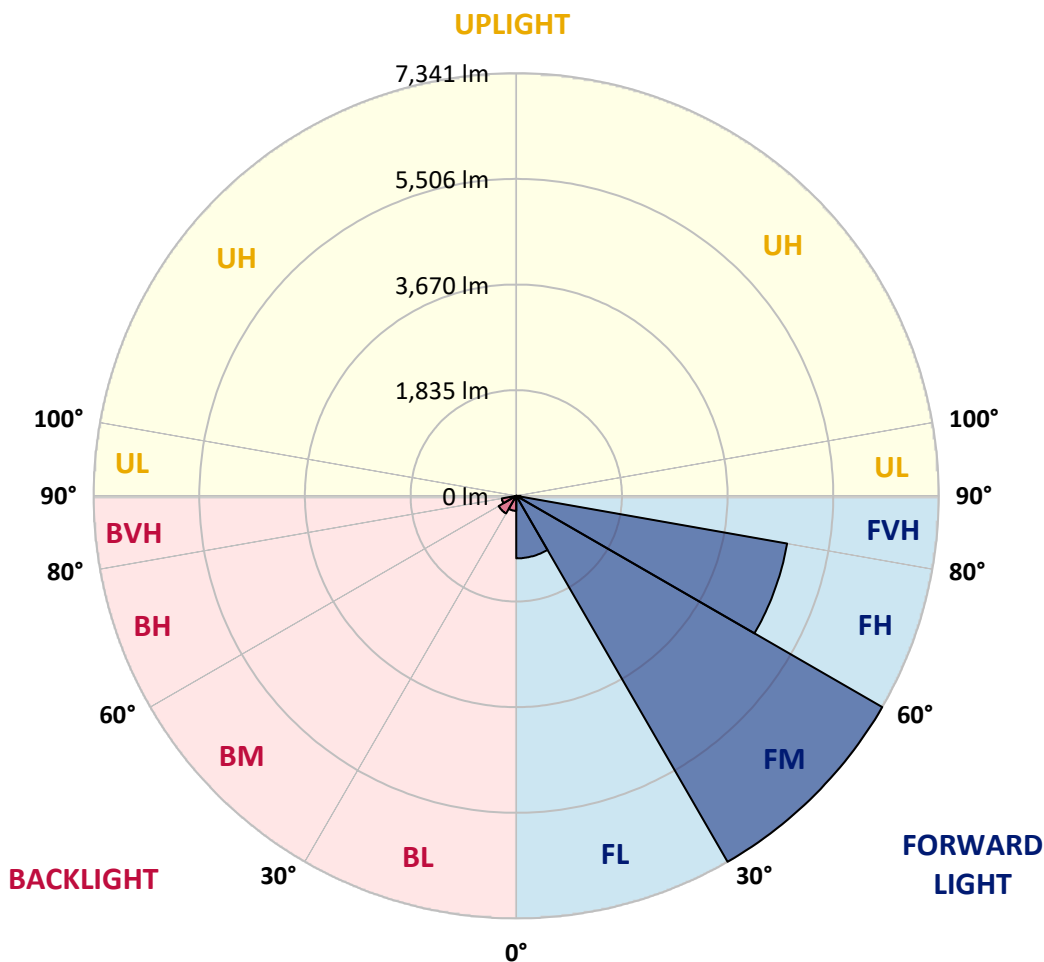


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.3	7.7			
FM (30°-60°)	7340.8	51.9			
FH (60°-80°)	4778.1	33.8			G2/5000
FVH (80°-90°)	73.4	0.5			G1/100
BL (0°-30°)	260.9	1.8	B1/500		
BM (30°-60°)	353.7	2.5	B1/1000		
BH (60°-80°)	255.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7
2.5°	1849.1	1826.1	1833.4	1823.0	1798.8	1763.2	1731.9	1686.9	1641.9	1634.6	1584.4
5°	2092.9	2086.6	2078.3	2047.9	2031.2	1976.8	1911.8	1834.4	1741.3	1724.6	1633.5
7.5°	2259.3	2256.2	2260.4	2244.6	2230.0	2180.8	2111.8	2006.0	1861.6	1852.2	1700.5
10°	2313.7	2322.1	2337.7	2362.9	2385.9	2370.2	2317.9	2186.0	2017.6	1990.3	1776.9
12.5°	2282.3	2291.7	2329.4	2396.3	2470.7	2513.6	2492.6	2396.3	2182.9	2160.9	1862.6
15°	2201.7	2213.3	2266.6	2370.2	2503.1	2624.5	2676.8	2607.8	2375.4	2339.8	1966.3
17.5°	2082.4	2099.2	2175.6	2312.7	2494.7	2704.1	2851.6	2828.5	2580.5	2547.1	2079.3
20°	1992.4	2005.0	2069.9	2226.9	2459.2	2748.0	3017.9	3082.9	2833.7	2776.2	2212.2
22.5°	2052.1	2056.2	2078.3	2172.5	2395.3	2759.5	3164.4	3347.6	3102.7	3051.5	2350.3
25°	2344.0	2302.2	2280.2	2259.3	2381.7	2749.1	3297.4	3623.9	3370.6	3316.2	2487.4
27.5°	2804.5	2785.6	2674.7	2526.1	2497.9	2762.6	3385.3	3885.5	3622.8	3564.2	2621.4
30°	3305.7	3273.3	3205.3	2987.7	2768.9	2858.9	3449.1	4139.7	3921.1	3843.6	2743.8
32.5°	3766.2	3787.1	3685.6	3461.6	3208.4	3064.0	3531.8	4417.1	4263.2	4167.0	2886.1
35°	4303.0	4344.9	4188.9	3974.4	3678.3	3434.5	3692.9	4730.0	4697.5	4576.1	3105.9
37.5°	4848.2	4873.3	4778.1	4476.7	4209.9	3905.4	3996.4	5116.1	5232.3	5128.7	3368.5
40°	5306.5	5341.1	5271.0	5003.1	4718.4	4450.6	4436.9	5536.7	5868.5	5761.8	3759.9
42.5°	5657.1	5683.3	5685.3	5495.9	5239.6	5118.2	4998.9	6073.6	6665.9	6542.4	4214.1
45°	6099.8	6137.4	6115.4	5986.7	5795.2	5773.3	5711.5	6722.4	7620.2	7464.3	4803.2
47.5°	6784.1	6809.2	6754.8	6603.1	6408.4	6443.0	6406.4	7449.7	8593.4	8459.5	5413.3
50°	7259.3	7301.1	7378.5	7439.2	7297.9	7170.3	7061.5	8128.9	9517.4	9397.1	6037.0
52.5°	7254.0	7323.1	7567.9	7873.5	8182.2	8143.5	7830.6	8879.1	10399.6	10251.0	6623.0
55°	6765.3	6899.2	7259.3	7801.3	8656.2	9082.1	8939.8	9747.7	11161.4	11061.0	7302.2
57.5°	5756.6	5838.1	6338.4	7095.9	8391.5	9523.7	10224.9	10924.9	12075.0	12027.9	8356.9
60°	3871.9	3908.5	4552.1	5488.6	7144.1	9083.2	11166.6	12349.2	13199.9	13176.9	9588.6
62.5°	2218.5	2234.2	2700.9	3491.0	5083.7	7697.7	11246.2	14106.2	14548.8	14561.3	11013.9
65°	1194.0	1202.4	1579.1	2048.9	3093.3	5486.5	10112.9	15068.9	15639.2	15663.3	11897.1
66°	1030.7	991.0	1256.8	1746.5	2461.3	4366.8	9396.1	15034.3	15848.5	15822.3	11865.7
67.5°	783.8	819.4	1003.6	1342.6	1824.0	3104.8	7757.3	14365.6	15689.4	15607.8	11383.3
70°	560.9	575.6	714.8	957.5	1242.2	1703.6	4957.0	11931.6	14260.0	14150.1	9917.2
72.5°	362.1	377.8	506.5	692.7	897.9	930.3	2775.2	8620.7	10994.0	10978.3	7468.5
75°	258.4	273.2	334.9	496.0	675.0	575.6	1336.3	5809.9	6989.2	6942.1	4620.1
77.5°	187.3	194.6	224.0	324.4	482.4	412.3	619.5	3102.7	3479.5	3643.7	2041.6
80°	107.8	114.0	155.9	197.8	326.5	281.5	296.1	1245.3	1284.0	1222.2	638.3
82.5°	53.4	60.7	93.1	135.0	204.0	189.4	136.1	374.7	395.5	385.1	161.1
85°	12.5	15.7	52.3	89.0	99.4	84.8	65.9	109.9	136.1	132.9	61.7
87.5°	1.0	2.1	18.8	15.7	16.7	28.3	23.0	28.3	44.0	40.8	22.0
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°	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7
2.5°	1561.3	1541.4	1483.9	1427.3	1380.2	1331.1	1286.1	1259.9	1249.5	1238.0	1243.2
5°	1583.3	1535.2	1419.0	1318.5	1220.1	1136.4	1069.5	1026.6	1005.7	1002.5	997.3
7.5°	1612.6	1529.9	1349.9	1193.0	1064.2	971.1	894.7	833.0	814.2	797.4	783.8
10°	1648.2	1520.5	1264.1	1061.1	924.0	806.8	706.4	633.1	595.4	585.0	592.3
12.5°	1685.9	1502.7	1174.1	939.7	781.7	632.1	538.9	502.3	491.8	487.6	488.7
15°	1723.5	1480.7	1079.9	822.5	622.7	504.3	461.5	452.0	447.9	445.8	443.7
17.5°	1758.0	1445.2	974.2	708.5	504.3	431.1	415.5	407.0	398.7	395.5	390.3
20°	1798.8	1404.3	879.0	580.8	427.0	390.3	371.5	355.8	343.2	334.9	333.8
22.5°	1837.6	1352.0	779.6	481.4	389.3	350.5	320.3	303.4	288.8	278.4	281.5
25°	1858.5	1288.2	690.6	419.7	354.7	310.8	277.3	256.4	240.7	235.5	234.4
27.5°	1858.5	1209.7	603.8	384.1	323.4	275.2	240.7	220.8	210.3	203.0	204.0
30°	1843.8	1122.8	523.2	356.8	296.1	243.8	211.3	193.6	185.2	180.0	179.0
32.5°	1832.4	1040.1	454.1	330.7	267.9	216.6	188.4	174.8	166.3	161.1	161.1
35°	1850.1	969.0	400.8	304.5	241.7	195.7	170.6	158.0	149.6	145.5	144.4
37.5°	1897.2	904.2	359.9	276.3	217.7	177.9	158.0	143.4	135.0	129.8	127.7
40°	2013.4	867.5	329.7	250.1	194.6	163.2	143.4	129.8	119.3	114.0	113.0
42.5°	2199.6	868.6	300.3	226.1	176.9	150.7	130.8	115.1	103.6	98.4	97.3
45°	2480.1	908.3	277.3	203.0	161.1	137.1	117.2	100.5	90.0	84.8	84.8
47.5°	2816.0	985.7	257.4	183.2	146.5	124.6	103.6	86.9	76.4	72.2	72.2
50°	3180.2	1086.2	237.6	162.2	134.0	110.9	89.0	75.4	66.9	63.8	63.8
52.5°	3551.6	1207.6	217.7	145.5	120.3	96.3	76.4	66.9	59.6	57.5	56.5
55°	4039.3	1362.5	196.7	127.7	105.7	82.7	68.0	58.6	50.2	47.1	46.0
57.5°	4789.6	1595.8	173.8	111.9	86.9	69.0	58.6	49.2	39.8	34.6	33.5
60°	5694.7	1880.5	149.6	98.4	70.1	56.5	47.1	37.7	29.3	23.0	22.0
62.5°	6542.4	2061.5	126.7	82.7	55.4	42.9	33.5	28.3	20.9	14.6	13.6
65°	6917.1	2000.8	104.6	66.9	44.0	30.4	22.0	19.8	12.5	6.3	5.2
66°	6792.5	1910.8	96.3	60.7	39.8	26.2	18.8	16.7	9.4	3.1	3.1
67.5°	6425.2	1698.4	83.7	52.3	34.6	20.9	14.6	12.5	5.2	1.0	0.0
70°	5505.4	1374.0	65.9	38.7	25.1	14.6	8.4	6.3	3.1	0.0	0.0
72.5°	4228.7	1023.4	52.3	29.3	17.8	8.4	4.2	2.1	3.1	0.0	0.0
75°	2591.0	585.0	40.8	22.0	11.5	5.2	3.1	0.0	3.1	1.0	0.0
77.5°	1150.1	262.6	27.2	14.6	8.4	4.2	2.1	0.0	2.1	1.0	0.0
80°	290.9	85.8	15.7	10.4	6.3	3.1	1.0	0.0	2.1	2.1	1.0
82.5°	79.6	31.4	11.5	8.4	5.2	3.1	1.0	0.0	2.1	2.1	2.1
85°	31.4	14.6	10.4	8.4	6.3	3.1	1.0	0.0	2.1	2.1	2.1
87.5°	14.6	10.4	10.4	9.4	7.3	3.1	1.0	0.0	2.1	1.0	2.1
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)