

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: P453227

Luminaire Tested: **GALN-SA4B-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13821 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

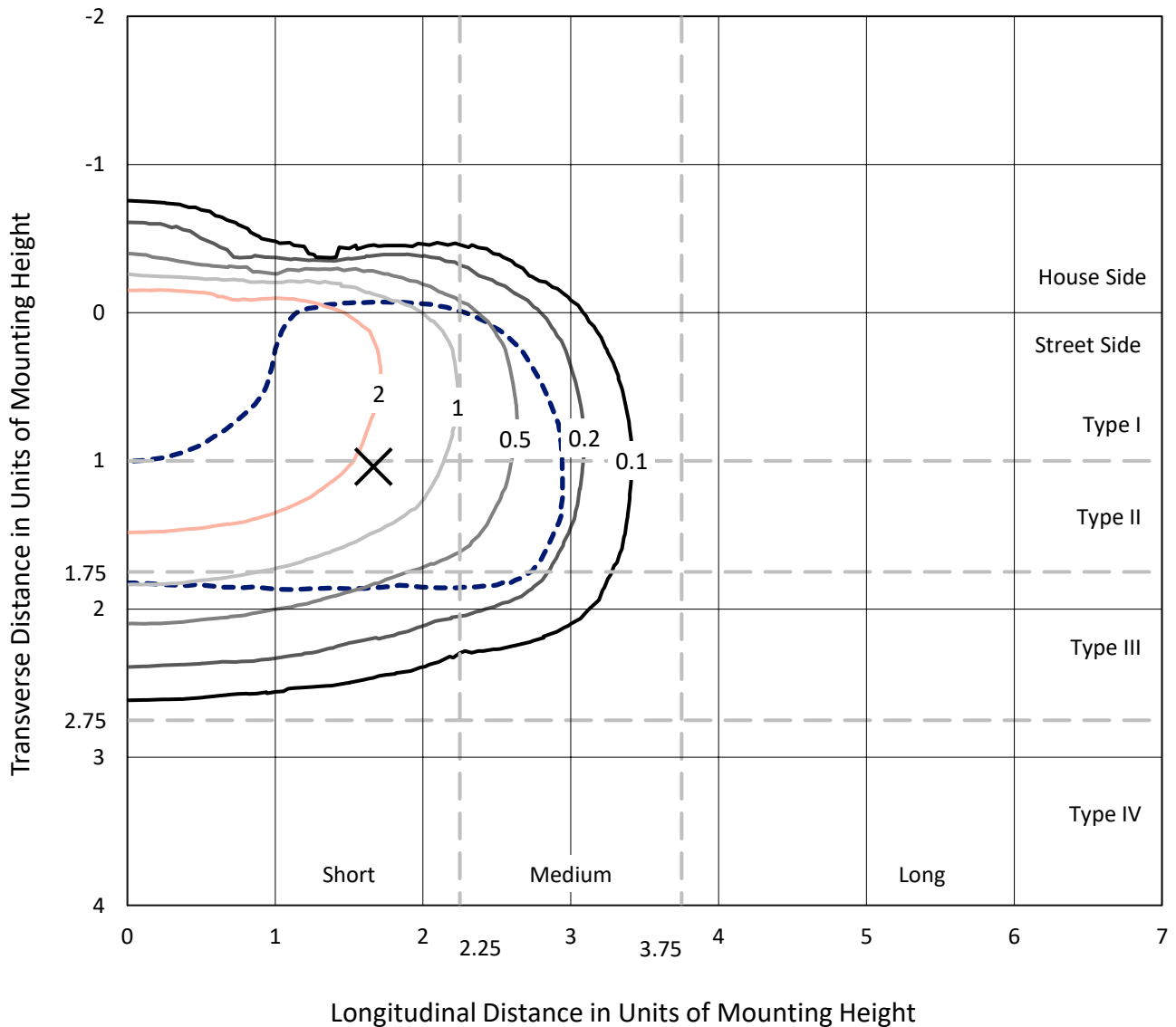
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

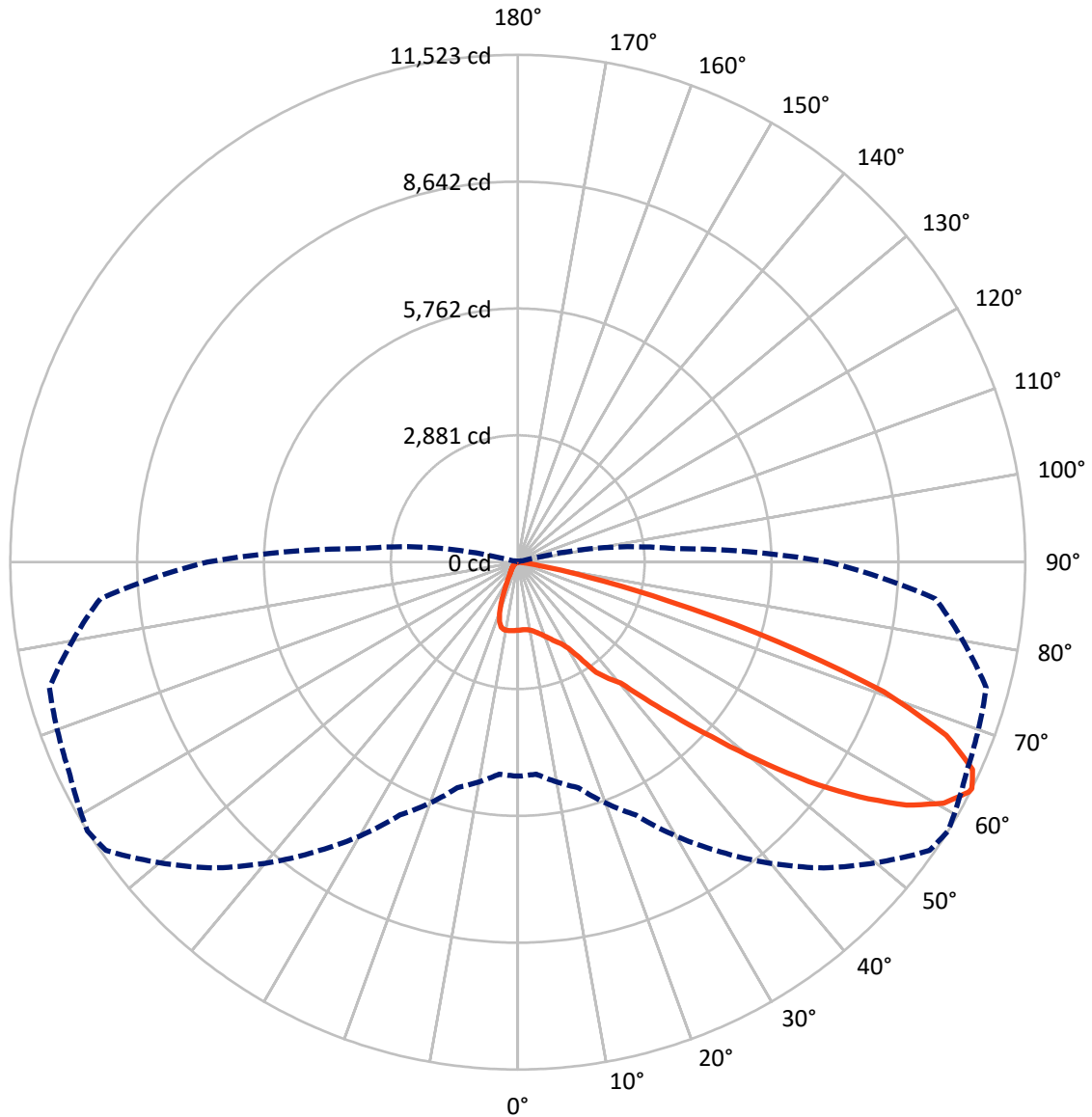
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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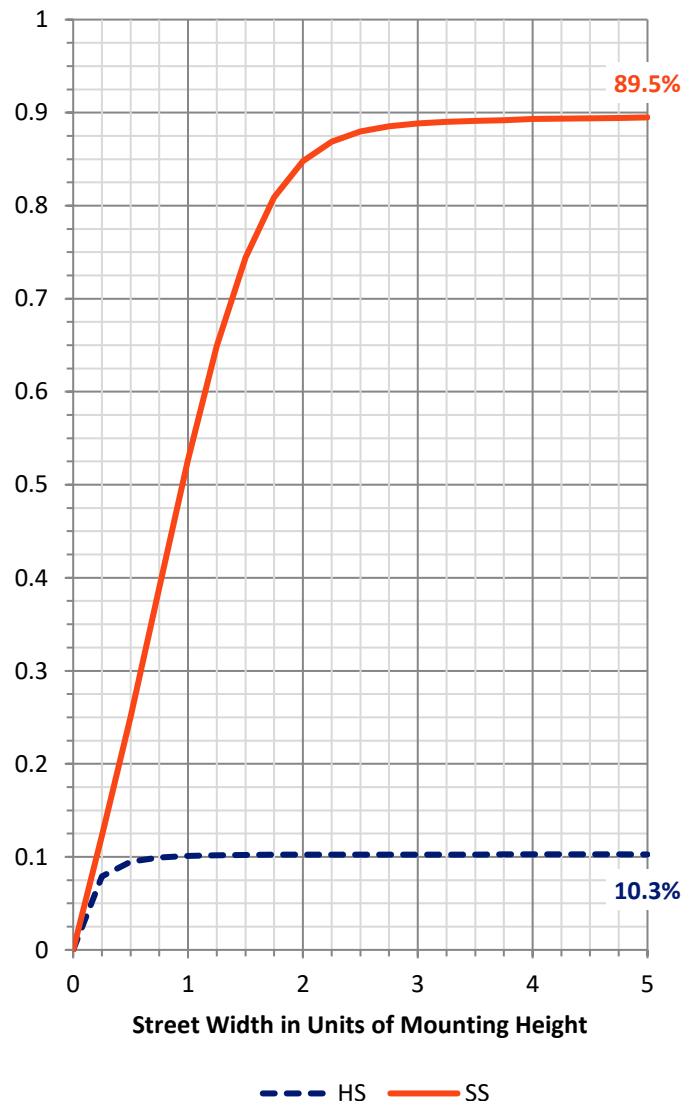
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.1	0.0	1431.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12389.9	0.0	12389.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	13821.0	0.0	13821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.0
10°-20°	394.5	2.9
20°-30°	684.7	5.0
30°-40°	1258.2	9.1
40°-50°	2368.6	17.1
50°-60°	4051.3	29.3
60°-70°	3879.1	28.1
70°-80°	989.2	7.2
80°-90°	50.6	0.4
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°	13821.0	100.0
0°-180°	13821.0	100.0



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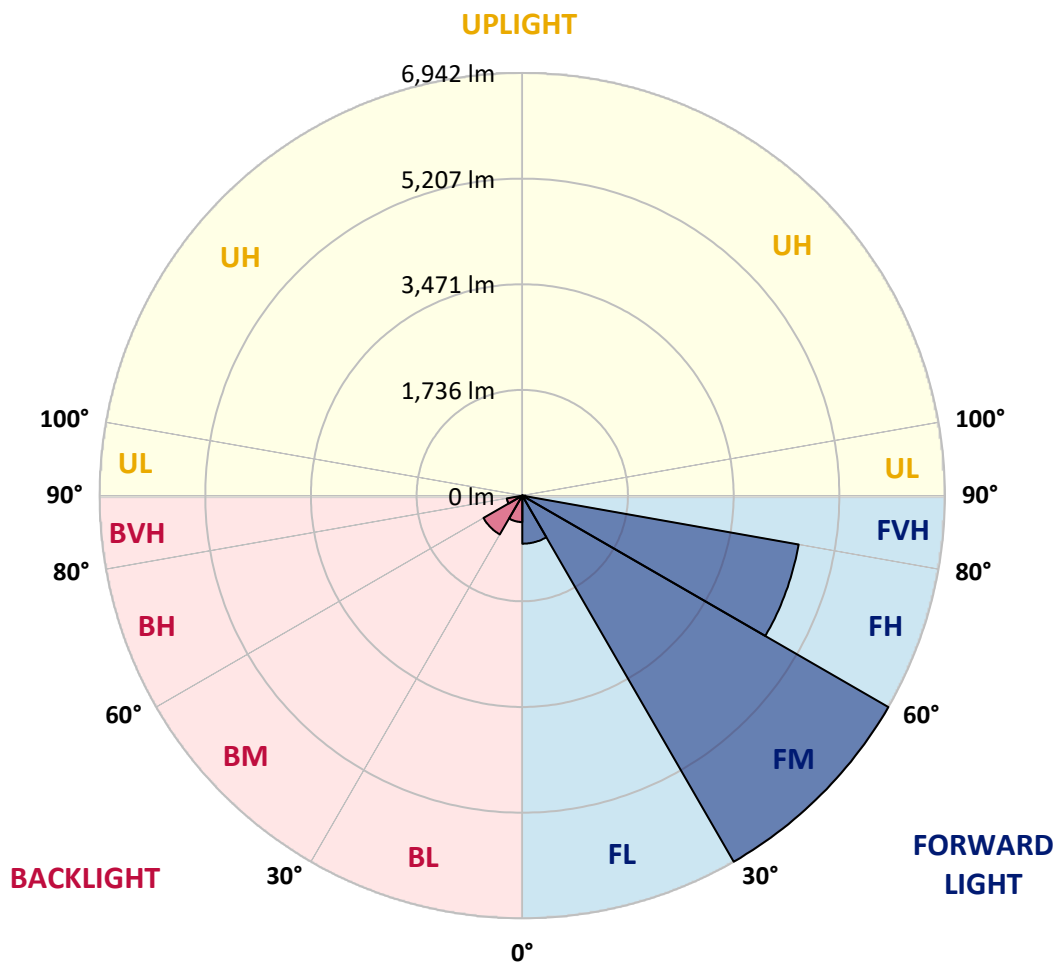
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.1	5.7			
FM (30°-60°)	6942.0	50.2			
FH (60°-80°)	4609.2	33.3			G2/5000
FVH (80°-90°)	48.6	0.4			G1/100
BL (0°-30°)	434.0	3.1	B1/500		
BM (30°-60°)	736.1	5.3	B1/1000		
BH (60°-80°)	259.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3
2.5°	1508.8	1514.0	1519.2	1521.3	1528.6	1535.9	1541.1	1540.0	1548.4	1552.5	1552.5
5°	1448.5	1448.5	1462.0	1474.5	1495.3	1516.1	1535.9	1540.0	1555.6	1570.2	1575.4
7.5°	1397.5	1400.6	1411.0	1433.9	1462.0	1498.4	1537.9	1547.3	1574.4	1606.6	1620.2
10°	1373.5	1375.6	1389.1	1413.1	1448.5	1498.4	1553.6	1571.2	1612.9	1663.9	1682.6
12.5°	1368.3	1371.5	1385.0	1412.0	1452.6	1513.0	1587.9	1606.6	1667.0	1732.5	1760.6
15°	1377.7	1379.8	1393.3	1422.4	1467.2	1539.0	1633.7	1659.7	1731.5	1807.5	1843.9
17.5°	1411.0	1408.9	1418.3	1442.2	1492.2	1571.2	1688.8	1720.0	1804.3	1908.4	1932.3
20°	1552.5	1539.0	1530.7	1509.9	1529.6	1617.0	1755.4	1801.2	1905.3	2011.4	2028.1
22.5°	1857.4	1827.2	1767.9	1686.7	1624.3	1679.5	1835.5	1888.6	2022.9	2126.9	2126.9
25°	2245.5	2207.0	2147.7	1970.8	1817.9	1782.5	1926.1	1992.7	2150.8	2255.9	2221.6
27.5°	2731.5	2701.3	2585.8	2379.8	2145.6	1962.5	2031.2	2092.6	2264.3	2391.2	2319.4
30°	3126.9	3112.3	3017.6	2833.4	2575.4	2308.0	2226.8	2267.4	2415.1	2561.9	2488.0
32.5°	3460.9	3460.9	3364.1	3192.4	2951.0	2713.8	2558.7	2587.9	2729.4	2899.0	2761.6
35°	3828.2	3815.7	3737.7	3574.3	3303.8	3094.6	3031.2	3070.7	3198.7	3324.6	2986.4
37.5°	4214.3	4210.1	4128.9	3970.8	3750.2	3486.9	3338.1	3348.5	3414.1	3491.1	3249.7
40°	4633.6	4639.9	4533.7	4435.9	4227.8	3958.3	3673.2	3607.6	3669.0	3886.5	3735.6
42.5°	5128.9	5114.4	5068.6	4935.4	4767.9	4606.6	4264.2	4240.3	4294.4	4527.5	4364.1
45°	5704.4	5725.2	5646.1	5572.2	5459.8	5325.6	5039.4	4997.8	5057.1	5419.2	5187.2
47.5°	6280.8	6261.1	6312.0	6298.5	6358.9	6259.0	6006.1	5920.8	6063.3	6406.7	6065.4
50°	6719.9	6741.8	6847.9	7003.0	7262.1	7318.3	7075.8	7046.7	7110.2	7330.8	6851.1
52.5°	7005.1	7077.9	7244.4	7642.9	8110.1	8473.3	8289.1	8273.5	8247.5	8306.8	7602.3
55°	7191.3	7265.2	7482.7	8069.6	8873.9	9463.9	9473.3	9406.7	9235.0	9192.3	8304.7
57.5°	7076.9	7091.4	7401.5	8186.1	9297.4	10170.4	10476.4	10409.8	10092.4	9931.1	8924.9
60°	6361.0	6391.1	6823.0	7744.9	9113.2	10401.4	11141.3	11111.1	10763.6	10581.5	9407.7
62.5°	5092.5	5179.9	5624.2	6652.3	8256.9	10012.3	11410.8	11496.1	11225.6	10974.8	9559.6
63°	4859.4	4831.3	5300.6	6333.9	8030.0	9819.8	11415.0	11523.2	11246.4	11012.3	9518.0
65°	3597.2	3681.5	3986.4	4994.7	6682.5	8923.9	11157.9	11349.4	11169.4	10846.8	9057.0
67.5°	2019.7	2015.6	2352.7	3268.4	4677.3	6999.9	10089.3	10494.1	10456.6	9733.4	7507.6
70°	988.5	1004.1	1142.5	1694.0	2712.7	4829.2	8383.8	8820.8	8834.4	7645.0	5191.4
72.5°	447.4	454.7	553.6	825.2	1394.4	2571.2	5777.2	6194.5	6117.5	4871.9	2866.7
75°	236.2	251.8	304.9	415.2	672.2	1060.3	3142.5	3546.2	3384.9	2225.8	1055.1
77.5°	174.8	180.0	207.1	264.3	360.0	413.1	1355.9	1612.9	1510.9	805.4	349.6
80°	128.0	132.2	154.0	187.3	226.8	210.2	510.9	585.8	525.5	273.7	107.2
82.5°	78.0	79.1	112.4	139.4	142.6	117.6	168.6	181.1	189.4	154.0	58.3
85°	28.1	35.4	76.0	100.9	84.3	59.3	70.8	78.0	85.3	97.8	34.3
87.5°	3.1	4.2	36.4	48.9	23.9	21.9	26.0	29.1	31.2	36.4	16.6
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°	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3	1547.3
2.5°	1556.7	1560.8	1557.7	1552.5	1551.5	1548.4	1542.1	1542.1	1542.1	1544.2	1542.1
5°	1579.6	1582.7	1575.4	1565.0	1553.6	1539.0	1523.4	1514.0	1513.0	1510.9	1505.7
7.5°	1623.3	1627.4	1610.8	1585.8	1554.6	1519.2	1485.9	1454.7	1440.1	1428.7	1428.7
10°	1686.7	1690.9	1657.6	1612.9	1550.4	1478.6	1399.6	1327.8	1271.6	1245.6	1239.3
12.5°	1762.7	1764.8	1709.6	1631.6	1528.6	1390.2	1221.6	1064.5	955.2	905.3	900.1
15°	1846.0	1831.4	1758.5	1638.9	1466.2	1208.1	916.7	724.2	610.8	577.5	590.0
17.5°	1930.2	1903.2	1796.0	1627.4	1325.7	916.7	616.0	494.3	458.9	449.5	449.5
20°	2009.3	1971.9	1823.1	1577.5	1082.2	631.6	456.8	427.7	421.4	415.2	416.2
22.5°	2088.4	2031.2	1847.0	1466.2	806.4	451.6	408.9	399.6	391.3	382.9	381.9
25°	2165.4	2086.3	1856.4	1260.1	549.4	388.1	373.6	361.1	344.4	335.1	333.0
27.5°	2245.5	2152.9	1850.1	1000.0	400.6	347.5	333.0	315.3	295.5	278.9	278.9
30°	2399.5	2279.9	1828.3	719.0	337.1	305.9	287.2	259.1	237.2	220.6	219.6
32.5°	2609.7	2445.3	1753.3	505.7	299.7	269.5	241.4	210.2	187.3	174.8	174.8
35°	2797.0	2611.8	1612.9	372.5	269.5	234.1	199.8	169.6	151.9	143.6	140.5
37.5°	3082.1	2855.3	1419.3	302.8	240.4	202.9	167.5	139.4	124.9	118.6	118.6
40°	3509.8	3152.9	1182.1	265.3	212.3	172.7	139.4	117.6	106.1	98.9	98.9
42.5°	4040.5	3517.1	941.7	238.3	186.3	148.8	116.5	99.9	89.5	84.3	83.2
45°	4708.5	3901.1	725.3	213.3	165.4	126.9	98.9	84.3	73.9	70.8	71.8
47.5°	5405.7	4239.2	561.9	191.5	143.6	107.2	84.3	72.8	65.6	61.4	61.4
50°	6000.9	4472.3	426.6	166.5	126.9	90.5	73.9	65.6	59.3	57.2	56.2
52.5°	6498.3	4540.0	326.7	144.6	111.3	78.0	65.6	59.3	54.1	51.0	51.0
55°	6921.8	4480.7	256.0	121.7	93.7	67.6	58.3	53.1	46.8	43.7	42.7
57.5°	7169.5	4290.2	195.6	100.9	76.0	56.2	51.0	44.7	37.5	32.3	32.3
60°	7294.3	4013.4	149.8	83.2	58.3	44.7	41.6	33.3	26.0	21.9	20.8
62.5°	7144.5	3646.1	113.4	65.6	43.7	33.3	28.1	23.9	16.6	12.5	12.5
63°	7051.9	3540.0	109.3	62.4	40.6	31.2	26.0	21.9	14.6	11.4	10.4
65°	6428.6	3076.9	89.5	49.9	32.3	21.9	17.7	15.6	10.4	5.2	4.2
67.5°	5105.0	2353.7	70.8	37.5	22.9	15.6	10.4	9.4	3.1	0.0	0.0
70°	3451.5	1520.3	55.1	27.1	15.6	9.4	5.2	4.2	1.0	0.0	0.0
72.5°	1800.2	779.4	42.7	19.8	9.4	6.2	3.1	1.0	0.0	0.0	0.0
75°	636.8	265.3	31.2	12.5	6.2	3.1	1.0	0.0	0.0	0.0	0.0
77.5°	192.5	98.9	19.8	9.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	67.6	36.4	11.4	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.3	17.7	7.3	5.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	11.4	6.2	5.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	8.3	6.2	5.2	4.2	2.1	1.0	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)