

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: P454996

Luminaire Tested: **GALN-SA6A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454996
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-SA6A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 14636 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

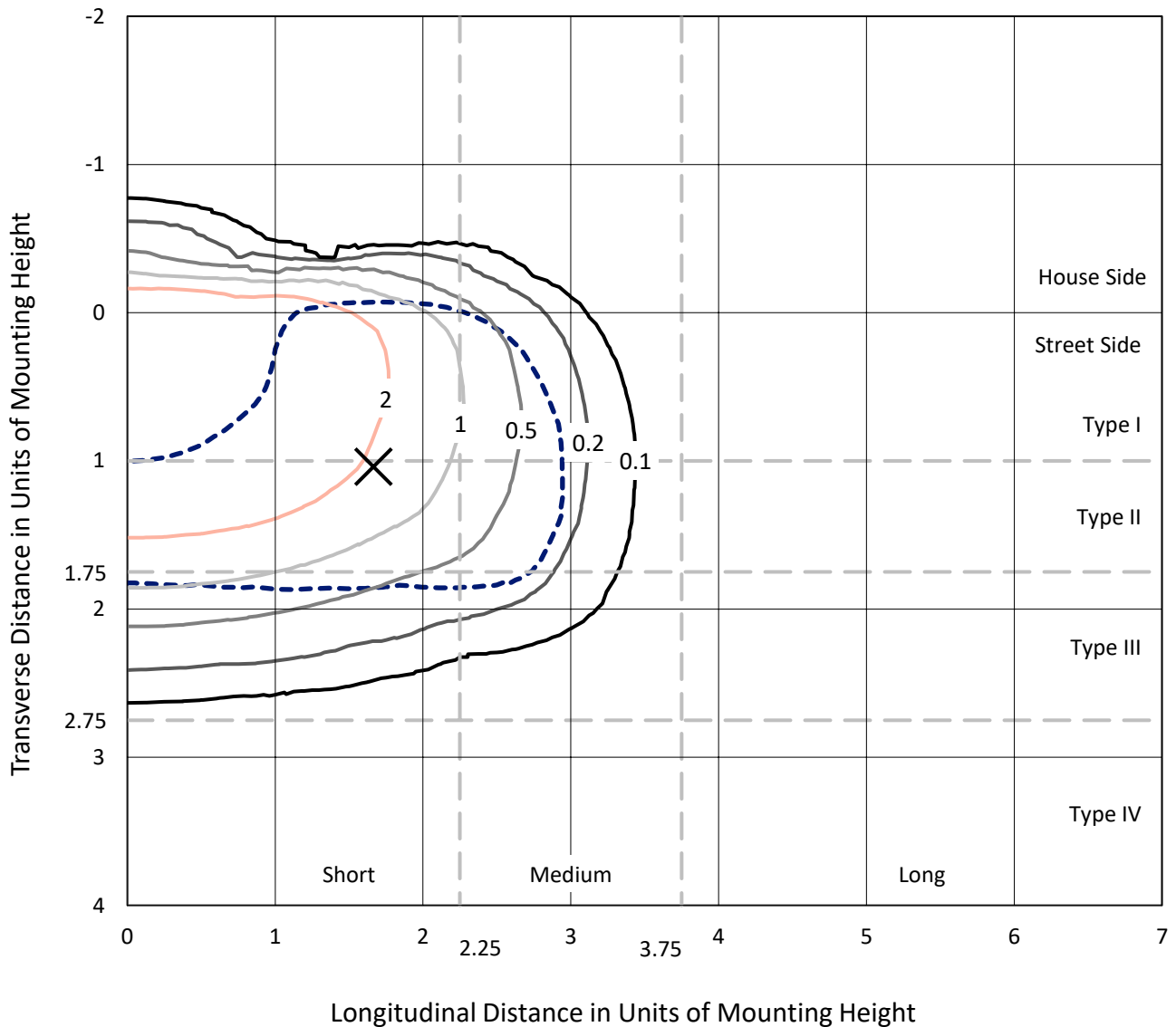
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

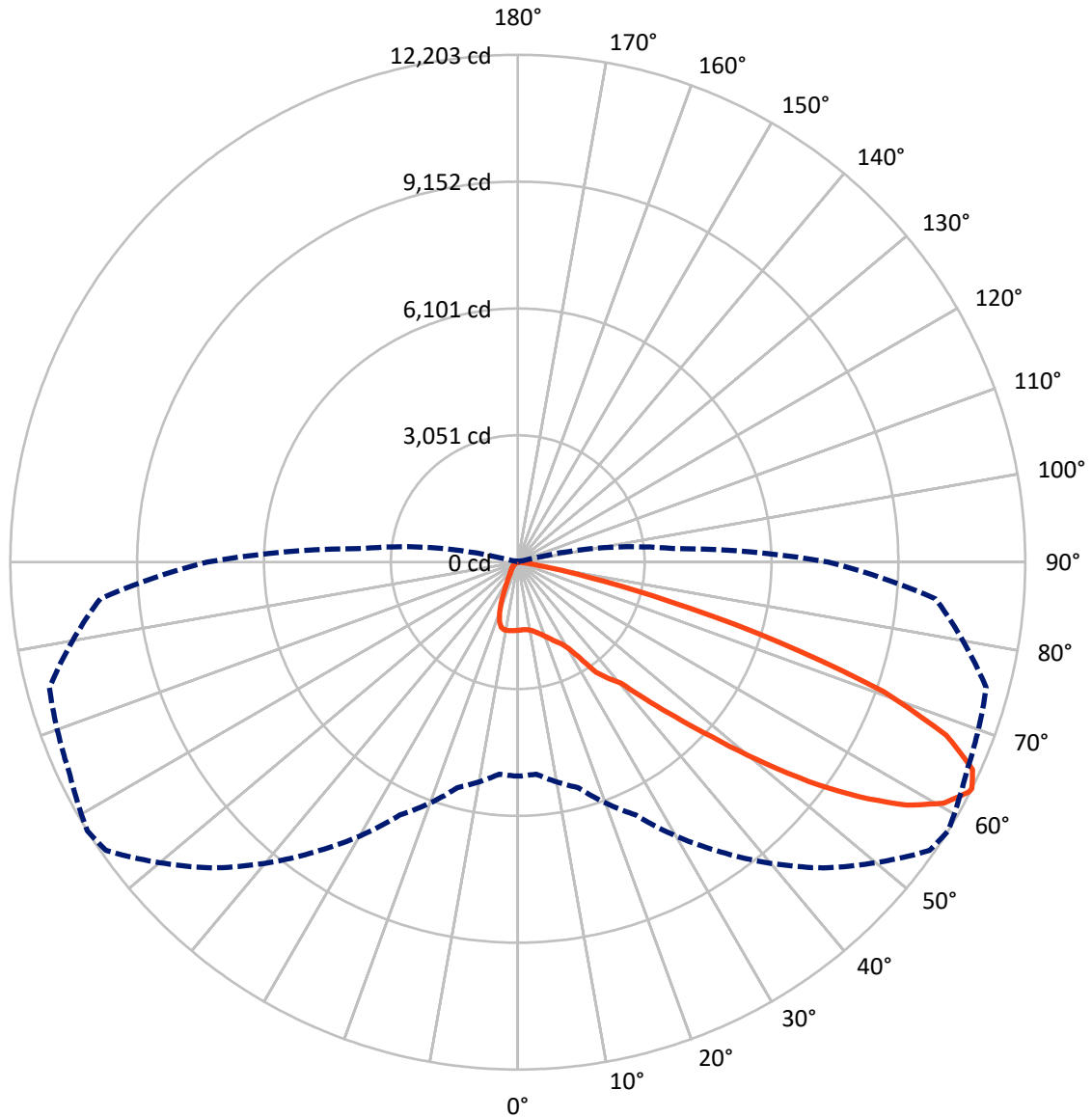
✕ Max cd
 - - - 1/2 Max cd



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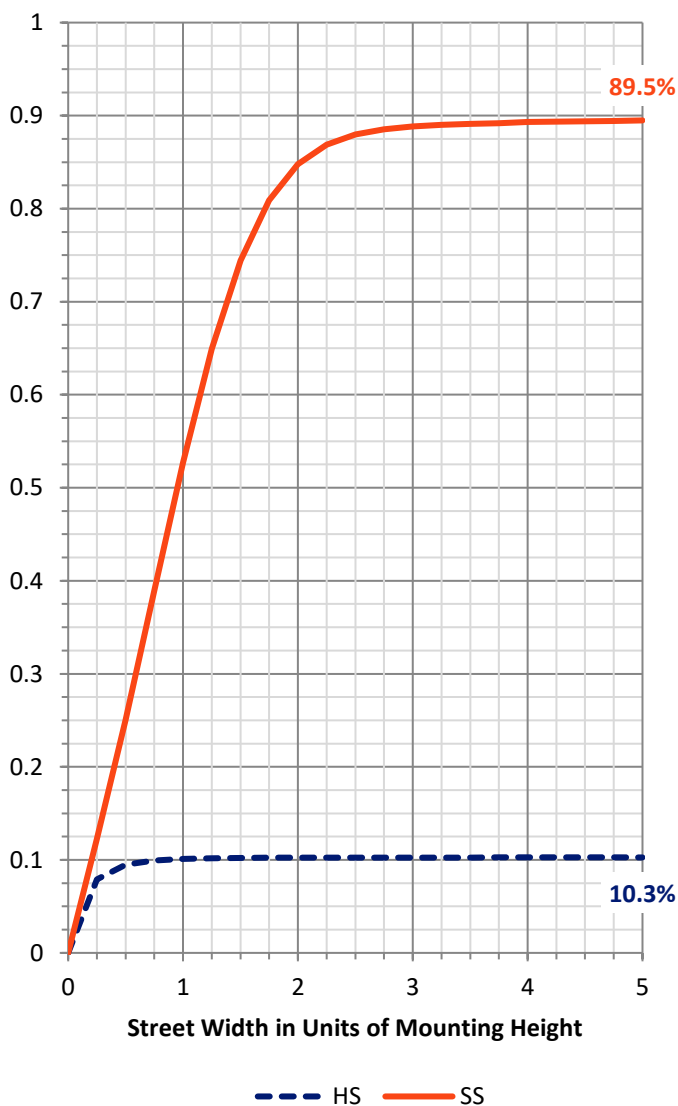
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.5	0.0	1515.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13120.5	0.0	13120.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	14636.0	0.0	14636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.0
10°-20°	417.8	2.9
20°-30°	725.1	5.0
30°-40°	1332.4	9.1
40°-50°	2508.2	17.1
50°-60°	4290.2	29.3
60°-70°	4107.8	28.1
70°-80°	1047.5	7.2
80°-90°	53.6	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°	14636.0	100.0
0°-180°	14636.0	100.0

Coefficient of Utilization



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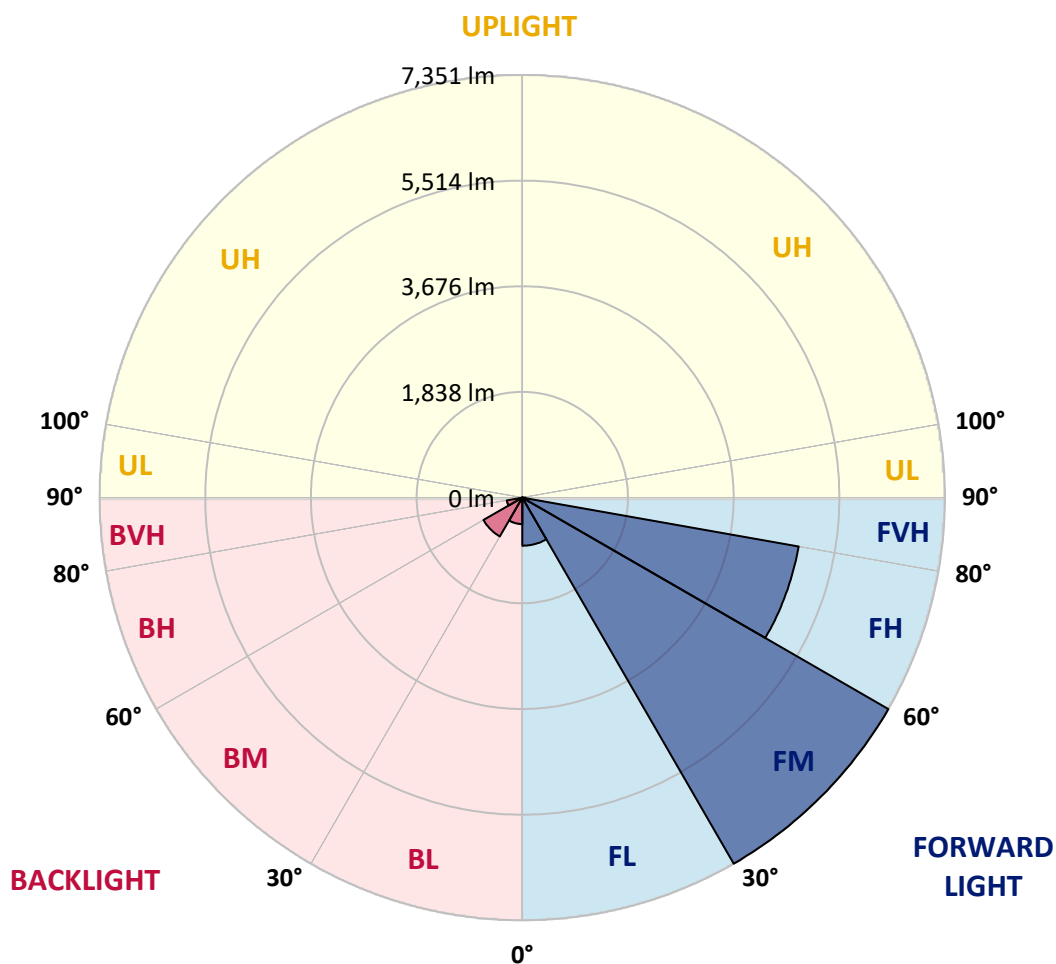
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.7	5.7			
FM (30°-60°)	7351.4	50.2			
FH (60°-80°)	4881.0	33.3			G2/5000
FVH (80°-90°)	51.5	0.4			G1/100
BL (0°-30°)	459.6	3.1	B1/500		
BM (30°-60°)	779.5	5.3	B1/1000		
BH (60°-80°)	274.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1597.8	1603.3	1608.8	1611.0	1618.7	1626.4	1631.9	1630.8	1639.7	1644.1	1644.1
5°	1533.9	1533.9	1548.2	1561.4	1583.5	1605.5	1626.4	1630.8	1647.4	1662.8	1668.3
7.5°	1479.9	1483.2	1494.2	1518.4	1548.2	1586.8	1628.6	1638.6	1667.2	1701.4	1715.7
10°	1454.5	1456.7	1471.1	1496.4	1533.9	1586.8	1645.2	1663.9	1708.0	1762.0	1781.8
12.5°	1449.0	1452.3	1466.7	1495.3	1538.3	1602.2	1681.5	1701.4	1765.3	1834.7	1864.5
15°	1458.9	1461.1	1475.5	1506.3	1553.7	1629.7	1730.0	1757.6	1833.6	1914.0	1952.6
17.5°	1494.2	1492.0	1501.9	1527.3	1580.2	1663.9	1788.4	1821.5	1910.7	2020.9	2046.3
20°	1644.1	1629.7	1620.9	1598.9	1619.8	1712.4	1858.9	1907.4	2017.6	2130.0	2147.6
22.5°	1966.9	1935.0	1872.2	1786.2	1720.1	1778.5	1943.8	2000.0	2142.1	2252.3	2252.3
25°	2377.9	2337.2	2274.4	2087.0	1925.1	1887.6	2039.7	2110.2	2277.7	2389.0	2352.6
27.5°	2892.5	2860.6	2738.3	2520.1	2272.2	2078.2	2151.0	2216.0	2397.8	2532.2	2456.2
30°	3311.3	3295.8	3195.6	3000.5	2727.3	2444.1	2358.1	2401.1	2557.6	2712.9	2634.7
32.5°	3665.0	3665.0	3562.5	3380.7	3125.0	2873.8	2709.6	2740.5	2890.3	3070.0	2924.5
35°	4054.0	4040.7	3958.1	3785.1	3498.6	3277.1	3209.9	3251.8	3387.3	3520.6	3162.5
37.5°	4462.8	4458.4	4372.4	4204.9	3971.3	3692.5	3535.0	3546.0	3615.4	3696.9	3441.3
40°	4906.9	4913.5	4801.1	4697.5	4477.1	4191.7	3889.8	3820.4	3885.4	4115.7	3955.9
42.5°	5431.4	5415.9	5367.5	5226.4	5049.0	4878.2	4515.7	4490.3	4547.6	4794.5	4621.5
45°	6040.7	6062.8	5979.0	5900.8	5781.8	5639.6	5336.6	5292.5	5355.3	5738.8	5493.1
47.5°	6651.2	6630.3	6684.3	6669.9	6733.8	6628.1	6360.3	6269.9	6420.9	6784.5	6423.1
50°	7116.2	7139.3	7251.7	7415.9	7690.3	7749.8	7493.1	7462.2	7529.4	7763.0	7255.0
52.5°	7418.1	7495.3	7671.6	8093.6	8588.4	8972.9	8777.9	8761.4	8733.8	8796.6	8050.6
55°	7615.4	7693.6	7923.9	8545.4	9397.2	10022.0	10031.9	9961.4	9779.6	9734.4	8794.4
57.5°	7494.2	7509.6	7838.0	8668.8	9845.7	10770.2	11094.1	11023.6	10687.5	10516.7	9451.2
60°	6736.0	6768.0	7225.3	8201.6	9650.6	11014.8	11798.3	11766.3	11398.3	11205.4	9962.5
62.5°	5392.8	5485.4	5955.9	7044.6	8743.7	10602.7	12083.7	12174.0	11887.5	11622.0	10123.3
63°	5146.0	5116.2	5613.2	6707.4	8503.5	10398.8	12088.1	12202.7	11909.6	11661.6	10079.3
65°	3809.3	3898.6	4221.5	5289.2	7076.5	9450.1	11815.9	12018.7	11828.0	11486.4	9591.1
67.5°	2138.8	2134.4	2491.4	3461.1	4953.1	7412.6	10684.2	11112.9	11073.2	10307.4	7950.4
70°	1046.8	1063.4	1209.9	1793.9	2872.7	5114.0	8878.2	9341.0	9355.3	8095.8	5497.5
72.5°	473.8	481.5	586.2	873.8	1476.6	2722.8	6117.9	6559.7	6478.2	5159.2	3035.8
75°	250.1	266.7	322.9	439.7	711.8	1122.9	3327.8	3755.3	3584.5	2357.0	1117.3
77.5°	185.1	190.6	219.3	279.9	381.3	437.5	1435.8	1708.0	1600.0	852.9	370.2
80°	135.5	139.9	163.1	198.3	240.2	222.6	541.0	620.4	556.5	289.8	113.5
82.5°	82.6	83.7	119.0	147.7	151.0	124.5	178.5	191.7	200.5	163.1	61.7
85°	29.8	37.5	80.4	106.9	89.3	62.8	74.9	82.6	90.4	103.6	36.4
87.5°	3.3	4.4	38.6	51.8	25.3	23.1	27.5	30.9	33.1	38.6	17.6
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°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1648.5	1652.9	1649.6	1644.1	1643.0	1639.7	1633.0	1633.0	1633.0	1635.3	1633.0
5°	1672.7	1676.0	1668.3	1657.3	1645.2	1629.7	1613.2	1603.3	1602.2	1600.0	1594.5
7.5°	1719.0	1723.4	1705.8	1679.3	1646.3	1608.8	1573.5	1540.5	1525.1	1512.9	1512.9
10°	1786.2	1790.6	1755.4	1708.0	1641.9	1565.8	1482.1	1406.1	1346.5	1319.0	1312.4
12.5°	1866.7	1868.9	1810.5	1727.8	1618.7	1472.2	1293.7	1127.3	1011.6	958.7	953.2
15°	1954.8	1939.4	1862.2	1735.5	1552.6	1279.3	970.8	766.9	646.8	611.6	624.8
17.5°	2044.1	2015.4	1901.9	1723.4	1403.8	970.8	652.3	523.4	485.9	476.0	476.0
20°	2127.8	2088.1	1930.6	1670.5	1146.0	668.9	483.7	452.9	446.3	439.7	440.8
22.5°	2211.6	2151.0	1955.9	1552.6	854.0	478.2	433.1	423.1	414.3	405.5	404.4
25°	2293.1	2209.4	1965.8	1334.4	581.8	411.0	395.6	382.4	364.7	354.8	352.6
27.5°	2377.9	2279.9	1959.2	1058.9	424.2	368.0	352.6	333.9	312.9	295.3	295.3
30°	2541.0	2414.3	1936.1	761.4	357.0	324.0	304.1	274.4	251.2	233.6	232.5
32.5°	2763.6	2589.5	1856.7	535.5	317.4	285.4	255.6	222.6	198.3	185.1	185.1
35°	2962.0	2765.8	1708.0	394.5	285.4	247.9	211.6	179.6	160.9	152.1	148.8
37.5°	3263.9	3023.7	1503.0	320.7	254.5	214.9	177.4	147.7	132.2	125.6	125.6
40°	3716.8	3338.8	1251.8	281.0	224.8	182.9	147.7	124.5	112.4	104.7	104.7
42.5°	4278.8	3724.5	997.2	252.3	197.2	157.6	123.4	105.8	94.8	89.3	88.2
45°	4986.2	4131.1	768.0	225.9	175.2	134.4	104.7	89.3	78.2	74.9	76.0
47.5°	5724.5	4489.2	595.0	202.8	152.1	113.5	89.3	77.1	69.4	65.0	65.0
50°	6354.8	4736.1	451.8	176.3	134.4	95.9	78.2	69.4	62.8	60.6	59.5
52.5°	6881.5	4807.7	346.0	153.2	117.9	82.6	69.4	62.8	57.3	54.0	54.0
55°	7330.0	4744.9	271.1	128.9	99.2	71.6	61.7	56.2	49.6	46.3	45.2
57.5°	7592.2	4543.2	207.2	106.9	80.4	59.5	54.0	47.4	39.7	34.2	34.2
60°	7724.5	4250.1	158.7	88.2	61.7	47.4	44.1	35.3	27.5	23.1	22.0
62.5°	7565.8	3861.1	120.1	69.4	46.3	35.3	29.8	25.3	17.6	13.2	13.2
63°	7467.7	3748.7	115.7	66.1	43.0	33.1	27.5	23.1	15.4	12.1	11.0
65°	6807.7	3258.4	94.8	52.9	34.2	23.1	18.7	16.5	11.0	5.5	4.4
67.5°	5406.0	2492.5	74.9	39.7	24.2	16.5	11.0	9.9	3.3	0.0	0.0
70°	3655.1	1609.9	58.4	28.6	16.5	9.9	5.5	4.4	1.1	0.0	0.0
72.5°	1906.3	825.3	45.2	20.9	9.9	6.6	3.3	1.1	0.0	0.0	0.0
75°	674.4	281.0	33.1	13.2	6.6	3.3	1.1	0.0	0.0	0.0	0.0
77.5°	203.9	104.7	20.9	9.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
80°	71.6	38.6	12.1	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	35.3	18.7	7.7	5.5	3.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.8	12.1	6.6	5.5	3.3	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	8.8	6.6	5.5	4.4	2.2	1.1	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)