

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: P648013

Luminaire Tested: **GALN-SA6A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648013
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-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 15589.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

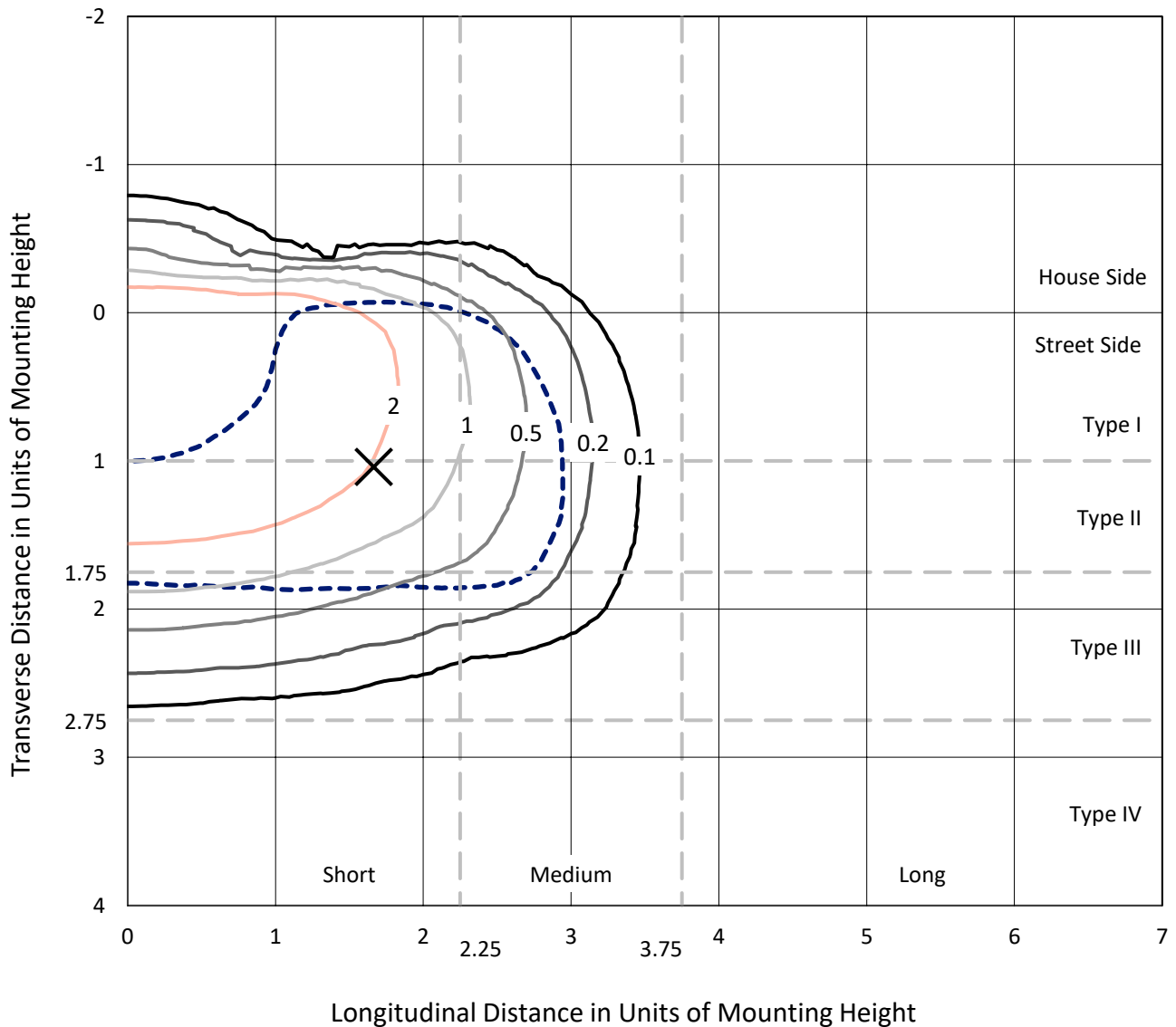
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

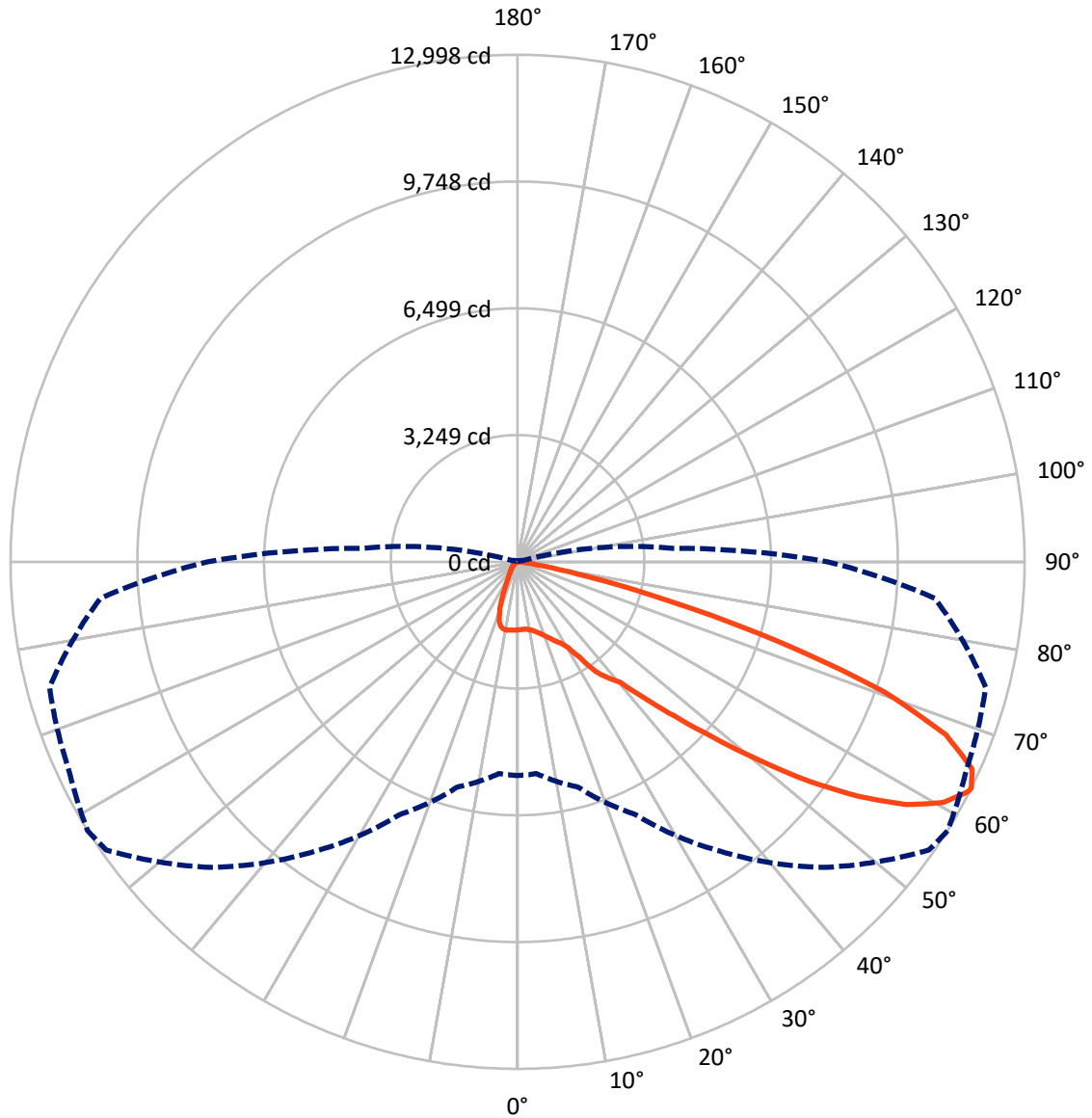
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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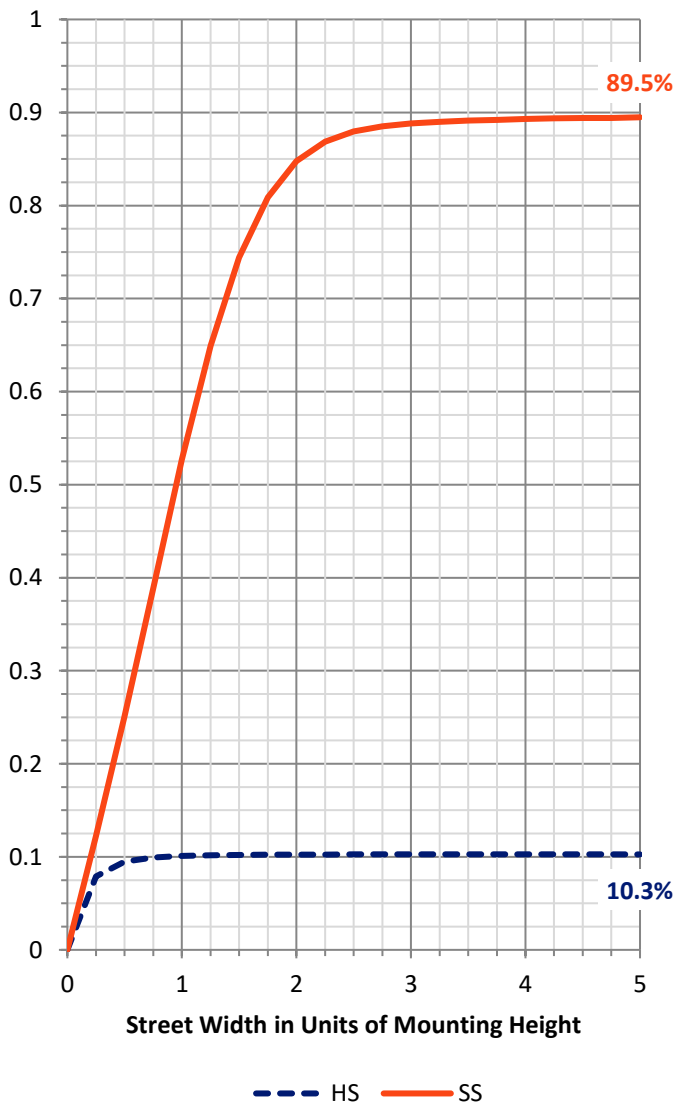
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.2	0.0	1614.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13975.3	0.0	13975.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	15589.5	0.0	15589.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.0
10°-20°	445.0	2.9
20°-30°	772.3	5.0
30°-40°	1419.2	9.1
40°-50°	2671.7	17.1
50°-60°	4569.7	29.3
60°-70°	4375.5	28.1
70°-80°	1115.8	7.2
80°-90°	57.1	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°	15589.5	100.0
0°-180°	15589.5	100.0



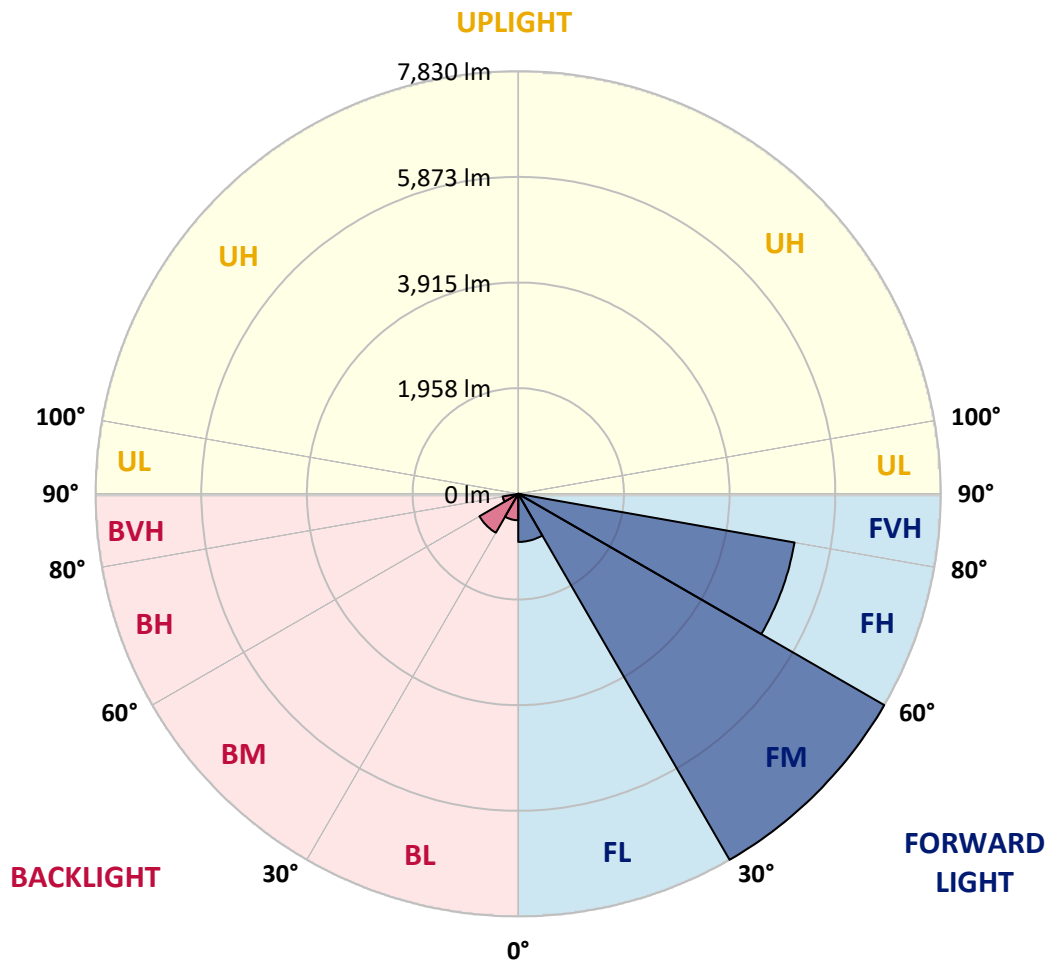
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.2	5.7			
FM (30°-60°)	7830.3	50.2			
FH (60°-80°)	5199.0	33.3			G3/7500
FVH (80°-90°)	54.8	0.4			G1/100
BL (0°-30°)	489.5	3.1	B1/500		
BM (30°-60°)	830.2	5.3	B1/1000		
BH (60°-80°)	292.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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°	45°	55°	58°	65°	75°	85°
0°	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3
2.5°	1701.9	1707.7	1713.6	1715.9	1724.2	1732.4	1738.3	1737.1	1746.5	1751.2	1751.2
5°	1633.8	1633.8	1649.1	1663.2	1686.7	1710.1	1732.4	1737.1	1754.7	1771.1	1777.0
7.5°	1576.3	1579.8	1591.5	1617.4	1649.1	1690.1	1734.7	1745.3	1775.8	1812.2	1827.4
10°	1549.3	1551.7	1566.9	1593.9	1633.8	1690.1	1752.4	1772.3	1819.2	1876.8	1897.9
12.5°	1543.4	1547.0	1562.2	1592.7	1638.5	1706.5	1791.1	1812.2	1880.3	1954.2	1985.9
15°	1554.0	1556.4	1571.6	1604.4	1654.9	1735.9	1842.7	1872.1	1953.0	2038.7	2079.8
17.5°	1591.5	1589.2	1599.7	1626.8	1683.1	1772.3	1905.0	1940.1	2035.3	2152.6	2179.6
20°	1751.2	1735.9	1726.5	1703.0	1725.3	1823.9	1980.1	2031.7	2149.1	2268.8	2287.5
22.5°	2095.1	2061.0	1994.1	1902.6	1832.1	1894.4	2070.4	2130.3	2281.7	2399.0	2399.0
25°	2532.8	2489.5	2422.5	2223.0	2050.4	2010.6	2172.5	2247.7	2426.0	2544.6	2505.8
27.5°	3081.0	3047.0	2916.7	2684.3	2420.2	2213.6	2291.1	2360.4	2554.0	2697.2	2616.2
30°	3527.0	3510.6	3403.8	3196.0	2904.9	2603.3	2511.7	2557.5	2724.2	2889.7	2806.4
32.5°	3903.7	3903.7	3794.6	3600.9	3328.6	3061.1	2886.1	2919.0	3078.7	3270.0	3115.0
35°	4318.1	4304.0	4216.0	4031.7	3726.5	3490.6	3419.0	3463.6	3608.0	3750.0	3368.5
37.5°	4753.5	4748.8	4657.3	4478.9	4230.1	3933.1	3765.3	3777.0	3851.0	3937.8	3665.5
40°	5226.5	5233.6	5113.9	5003.5	4768.8	4464.8	4143.2	4069.3	4138.5	4383.8	4213.6
42.5°	5785.2	5768.8	5717.2	5566.9	5378.0	5196.0	4809.9	4782.9	4843.9	5106.8	4922.6
45°	6434.3	6457.8	6368.5	6285.2	6158.5	6007.0	5684.3	5637.4	5704.2	6112.7	5851.0
47.5°	7084.5	7062.2	7119.7	7104.5	7172.5	7059.8	6774.7	6678.4	6839.2	7226.5	6841.5
50°	7579.8	7604.5	7724.2	7899.1	8191.4	8254.7	7981.2	7948.4	8020.0	8268.8	7727.7
52.5°	7901.4	7983.5	8171.4	8620.9	9147.9	9557.5	9349.8	9332.2	9302.8	9369.8	8575.1
55°	8111.5	8194.9	8440.2	9102.1	10009.4	10674.9	10685.4	10610.4	10416.7	10368.6	9367.4
57.5°	7982.4	7998.8	8348.6	9233.6	10487.1	11471.9	11817.0	11741.8	11383.8	11201.9	10067.0
60°	7174.9	7208.9	7696.0	8735.9	10279.4	11732.4	12566.9	12532.9	12140.9	11935.5	10611.5
62.5°	5744.2	5842.7	6343.9	7503.6	9313.4	11293.4	12870.9	12967.2	12662.0	12379.2	10782.8
63°	5481.2	5449.5	5978.9	7144.4	9057.5	11076.3	12875.6	12997.6	12685.5	12421.4	10735.9
65°	4057.5	4152.6	4496.5	5633.8	7537.5	10065.8	12585.7	12801.7	12598.6	12234.8	10216.0
67.5°	2278.1	2273.4	2653.7	3686.6	5275.9	7895.5	11380.3	11836.8	11794.6	10978.9	8468.3
70°	1115.0	1132.6	1288.7	1910.8	3059.9	5447.2	9456.6	9949.6	9964.8	8623.3	5855.7
72.5°	504.7	512.9	624.4	930.8	1572.7	2900.2	6516.4	6987.1	6900.3	5495.3	3233.6
75°	266.5	284.1	343.9	468.3	758.2	1196.0	3544.6	4000.0	3818.1	2510.5	1190.2
77.5°	197.2	203.0	233.6	298.1	406.1	466.0	1529.4	1819.2	1704.2	908.4	394.4
80°	144.4	149.1	173.7	211.3	255.9	237.1	576.3	660.8	592.7	308.7	120.9
82.5°	88.0	89.2	126.8	157.3	160.8	132.6	190.1	204.2	213.6	173.7	65.7
85°	31.7	39.9	85.7	113.8	95.1	66.9	79.8	88.0	96.2	110.3	38.8
87.5°	3.5	4.7	41.1	55.2	27.0	24.7	29.4	32.9	35.2	41.1	18.8
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°	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3	1745.3
2.5°	1755.9	1760.6	1757.1	1751.2	1750.0	1746.5	1739.4	1739.4	1739.4	1741.8	1739.4
5°	1781.7	1785.2	1777.0	1765.3	1752.4	1735.9	1718.3	1707.7	1706.5	1704.2	1698.3
7.5°	1831.0	1835.7	1816.9	1788.8	1753.5	1713.6	1676.1	1640.9	1624.4	1611.5	1611.5
10°	1902.6	1907.3	1869.7	1819.2	1748.8	1667.9	1578.6	1497.6	1434.3	1404.9	1397.9
12.5°	1988.3	1990.6	1928.4	1840.4	1724.2	1568.1	1377.9	1200.7	1077.5	1021.1	1015.2
15°	2082.2	2065.7	1983.6	1848.6	1653.8	1362.7	1034.0	816.9	689.0	651.4	665.5
17.5°	2177.2	2146.8	2025.9	1835.7	1495.3	1034.0	694.8	557.5	517.6	507.1	507.1
20°	2266.5	2224.2	2056.3	1779.4	1220.7	712.5	515.3	482.4	475.4	468.3	469.5
22.5°	2355.7	2291.1	2083.3	1653.8	909.6	509.4	461.3	450.7	441.3	431.9	430.7
25°	2442.5	2353.3	2093.9	1421.4	619.7	437.8	421.3	407.3	388.5	378.0	375.6
27.5°	2532.8	2428.4	2086.9	1127.9	451.9	392.0	375.6	355.6	333.3	314.5	314.5
30°	2706.6	2571.6	2062.2	811.0	380.3	345.1	323.9	292.2	267.6	248.8	247.7
32.5°	2943.7	2758.2	1977.7	570.4	338.0	304.0	272.3	237.1	211.3	197.2	197.2
35°	3154.9	2946.0	1819.2	420.2	304.0	264.1	225.3	191.3	171.4	162.0	158.5
37.5°	3476.5	3220.6	1600.9	341.5	271.2	228.9	188.9	157.3	140.9	133.8	133.8
40°	3958.9	3556.3	1333.4	299.3	239.4	194.8	157.3	132.6	119.7	111.5	111.5
42.5°	4557.5	3967.1	1062.2	268.8	210.1	167.9	131.5	112.7	100.9	95.1	93.9
45°	5311.0	4400.2	818.1	240.6	186.6	143.2	111.5	95.1	83.3	79.8	81.0
47.5°	6097.5	4781.7	633.8	216.0	162.0	120.9	95.1	82.1	73.9	69.2	69.2
50°	6768.8	5044.6	481.2	187.8	143.2	102.1	83.3	73.9	66.9	64.5	63.3
52.5°	7329.8	5120.9	368.6	163.2	125.6	88.0	73.9	66.9	61.0	57.6	57.6
55°	7807.5	5054.0	288.8	137.3	105.6	76.3	65.7	59.8	52.9	49.3	48.2
57.5°	8086.9	4839.2	220.6	113.8	85.7	63.3	57.6	50.5	42.3	36.4	36.4
60°	8227.7	4527.0	169.0	93.9	65.7	50.5	47.0	37.6	29.4	24.7	23.5
62.5°	8058.7	4112.7	127.9	73.9	49.3	37.6	31.7	27.0	18.8	14.1	14.1
63°	7954.3	3993.0	123.2	70.4	45.8	35.2	29.4	24.7	16.4	12.9	11.7
65°	7251.2	3470.6	100.9	56.4	36.4	24.7	20.0	17.6	11.7	5.9	4.7
67.5°	5758.3	2654.9	79.8	42.3	25.8	17.6	11.7	10.6	3.5	0.0	0.0
70°	3893.2	1714.8	62.2	30.5	17.6	10.6	5.9	4.7	1.2	0.0	0.0
72.5°	2030.6	879.1	48.2	22.3	10.6	7.0	3.5	1.2	0.0	0.0	0.0
75°	718.3	299.3	35.2	14.1	7.0	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	217.1	111.5	22.3	10.6	4.7	2.3	0.0	0.0	0.0	0.0	0.0
80°	76.3	41.1	12.9	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.6	20.0	8.2	5.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.1	12.9	7.0	5.9	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	9.4	7.0	5.9	4.7	2.3	1.2	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)