

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: P529023

Luminaire Tested: **GALN-SA4A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7942 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

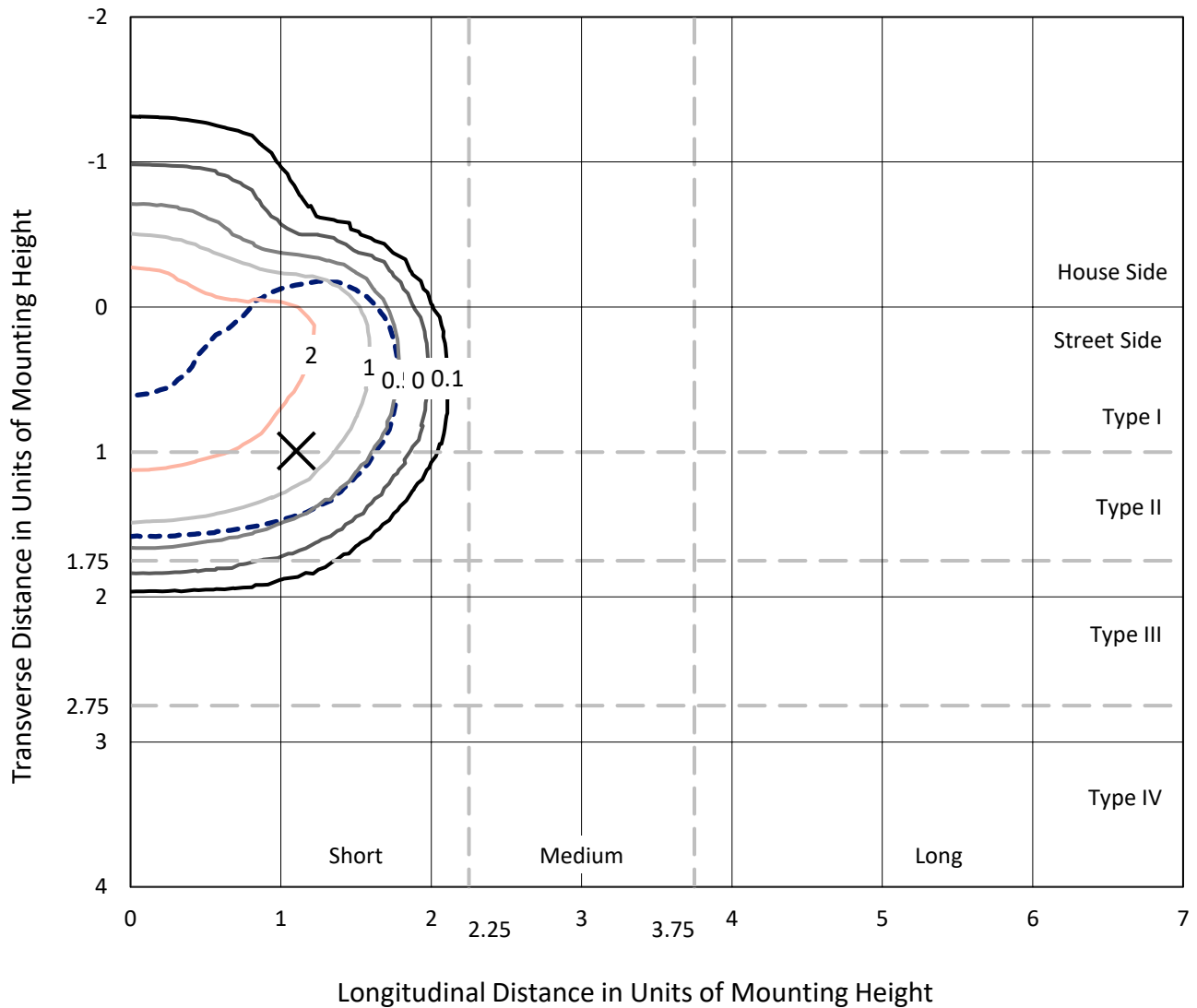
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

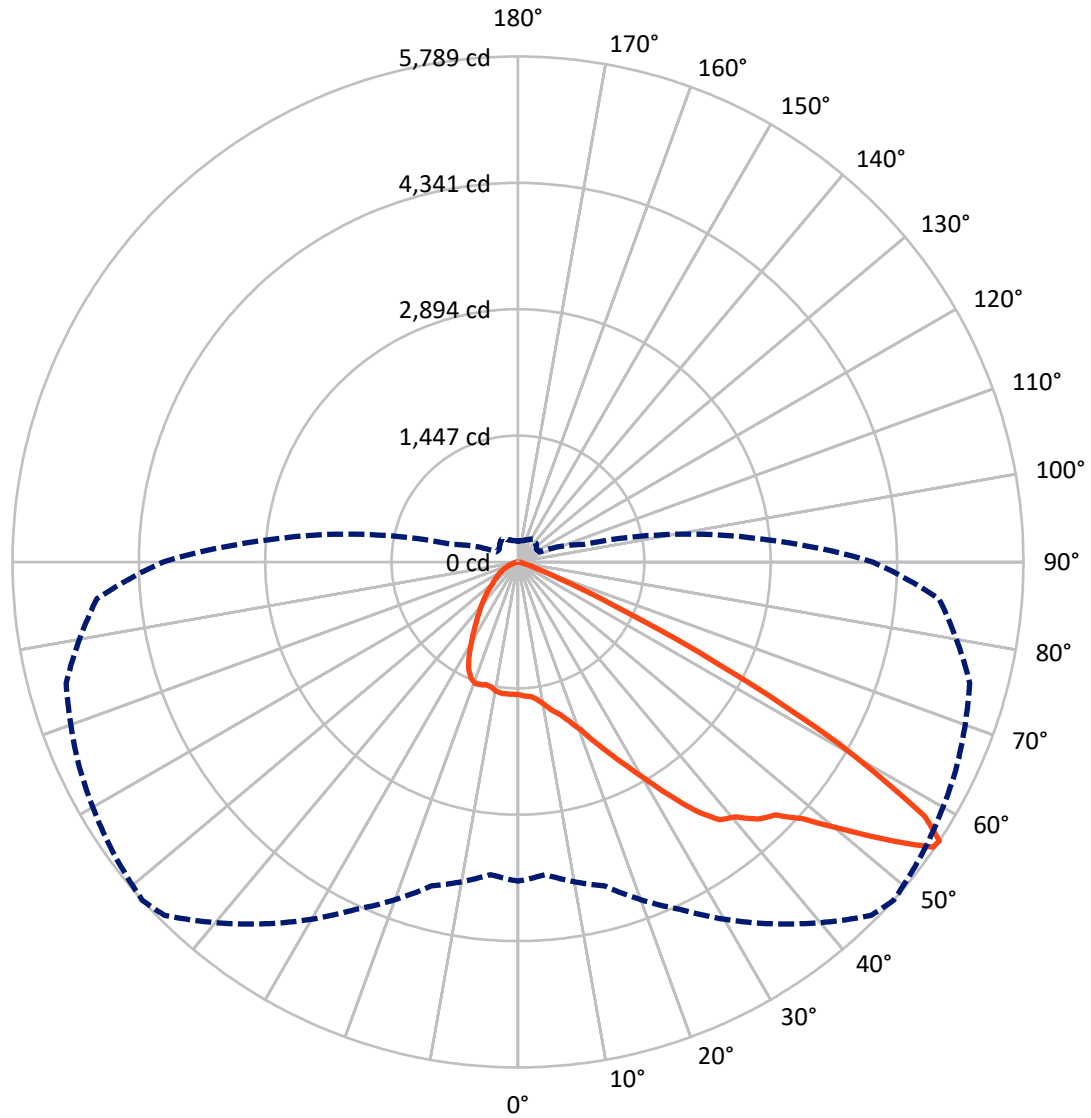
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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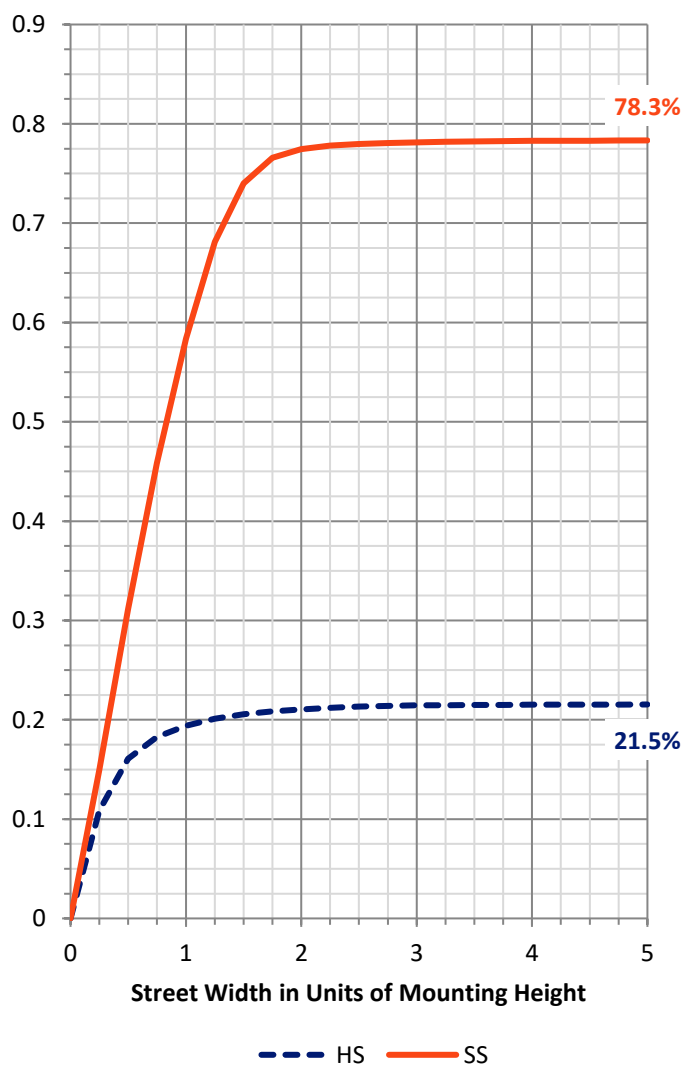
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.2	0.0	1727.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6214.8	0.0	6214.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	7942.0	0.0	7942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.9
10°-20°	472.2	5.9
20°-30°	856.5	10.8
30°-40°	1345.4	16.9
40°-50°	1962.8	24.7
50°-60°	2364.7	29.8
60°-70°	692.4	8.7
70°-80°	87.8	1.1
80°-90°	12.3	0.2
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°	7942.0	100.0
0°-180°	7942.0	100.0

Coefficient of Utilization



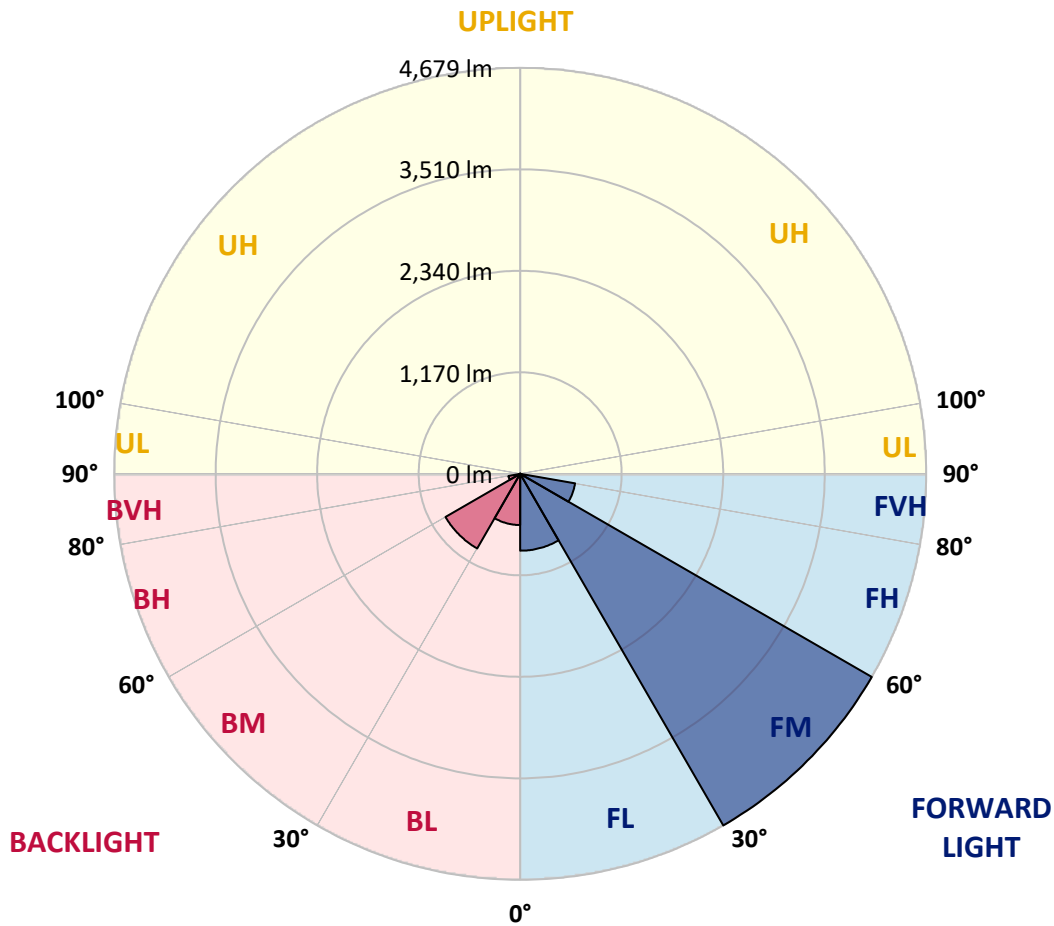
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.2	11.2			
FM (30°-60°)	4679.4	58.9			
FH (60°-80°)	643.0	8.1			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	590.4	7.4	B2/1000		
BM (30°-60°)	993.5	12.5	B1/1000		
BH (60°-80°)	137.2	1.7	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1544.4	1537.2	1537.2	1525.6	1538.6	1532.8	1537.2	1522.7	1537.2	1515.5	1532.8
5°	1551.6	1553.1	1547.3	1554.5	1554.5	1563.2	1548.7	1561.8	1569.0	1553.1	1545.8
7.5°	1589.2	1592.1	1590.7	1584.9	1596.5	1595.0	1593.6	1583.4	1586.3	1580.6	1571.9
10°	1663.0	1661.5	1668.8	1654.3	1645.6	1655.7	1658.6	1642.7	1631.2	1626.8	1599.4
12.5°	1770.0	1752.6	1742.5	1728.1	1732.4	1717.9	1744.0	1716.5	1710.7	1684.7	1657.2
15°	1856.8	1853.9	1855.3	1832.2	1806.1	1811.9	1811.9	1797.5	1788.8	1757.0	1717.9
17.5°	2034.6	1973.9	1986.9	1958.0	1936.3	1934.8	1921.8	1924.7	1901.6	1835.1	1775.8
20°	2173.4	2147.4	2127.2	2078.0	2044.7	2054.9	2049.1	2034.6	2027.4	1940.6	1856.8
22.5°	2297.8	2306.5	2273.2	2260.2	2213.9	2218.3	2229.8	2216.8	2161.9	2072.2	1947.9
25°	2472.8	2462.7	2417.8	2401.9	2358.5	2374.4	2419.3	2409.1	2374.4	2212.5	2018.7
27.5°	2679.6	2644.9	2653.5	2581.2	2539.3	2584.1	2637.6	2688.2	2589.9	2377.3	2102.6
30°	2825.6	2789.5	2786.6	2783.7	2773.6	2825.6	2887.8	2934.1	2854.5	2542.2	2241.4
32.5°	2897.9	2906.6	2931.2	2922.5	3010.7	3117.7	3182.8	3249.3	3149.5	2811.2	2425.1
35°	3090.2	3035.3	3090.2	3096.0	3187.1	3414.2	3496.6	3655.7	3631.1	3191.5	2649.2
37.5°	3203.0	3198.7	3205.9	3260.9	3349.1	3629.6	3746.8	3869.7	3823.4	3420.0	2928.3
40°	3389.6	3401.2	3399.7	3441.6	3538.5	3791.6	3839.3	3939.1	3943.4	3736.6	3339.0
42.5°	3688.9	3642.6	3612.3	3655.7	3791.6	3931.9	4027.3	4007.1	4150.2	4121.3	3866.8
45°	3957.9	3985.4	3940.5	4012.8	4062.0	4137.2	4134.3	4177.7	4359.9	4497.3	4264.5
47.5°	4209.5	4226.9	4248.5	4297.7	4404.7	4416.3	4391.7	4372.9	4624.5	4766.2	4572.5
50°	4359.9	4375.8	4477.0	4565.2	4764.8	4790.8	4805.3	4757.6	4928.2	4944.1	4863.1
52.5°	4319.4	4336.8	4478.5	4769.1	5087.3	5325.9	5282.5	5201.5	5191.4	5253.6	5132.1
55°	3960.8	3944.9	4140.1	4592.7	5188.5	5761.1	5766.9	5681.6	5518.2	5476.3	5091.6
56°	3655.7	3593.5	3842.2	4388.8	5058.3	5723.5	5788.6	5697.5	5544.2	5356.2	4841.4
57.5°	2994.8	3054.1	3301.4	3754.0	4608.6	5453.1	5490.7	5469.0	5353.3	5038.1	4260.1
60°	1651.4	1755.5	1973.9	2527.7	3281.1	4184.9	4215.3	4391.7	4413.4	3858.1	2931.2
62.5°	701.3	689.8	916.8	1324.6	1868.3	2526.3	2582.7	2763.4	2796.7	2224.1	1470.7
65°	284.9	300.8	415.0	666.6	987.7	1151.1	1230.6	1289.9	1399.8	918.3	542.3
67.5°	188.0	186.5	244.4	380.3	532.2	513.4	513.4	542.3	501.8	374.5	234.3
70°	134.5	138.8	175.0	263.2	331.1	245.8	235.7	225.6	256.0	247.3	189.4
72.5°	88.2	94.0	117.1	157.6	172.1	134.5	134.5	162.0	211.1	199.6	154.7
75°	57.8	59.3	72.3	91.1	85.3	69.4	76.6	108.5	153.3	147.5	109.9
77.5°	39.0	40.5	49.2	59.3	47.7	39.0	41.9	55.0	75.2	75.2	57.8
80°	14.5	15.9	20.2	18.8	21.7	27.5	30.4	37.6	44.8	44.8	39.0
82.5°	0.0	1.4	4.3	10.1	15.9	21.7	24.6	28.9	33.3	37.6	36.2
85°	0.0	1.4	4.3	7.2	11.6	13.0	14.5	10.1	8.7	8.7	7.2
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.9	1.4	1.4
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°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1516.9	1515.5	1515.5	1511.1	1519.8	1515.5	1518.4	1516.9	1498.1	1512.6	1502.5
5°	1532.8	1543.0	1527.0	1524.2	1512.6	1516.9	1516.9	1502.5	1515.5	1514.0	1511.1
7.5°	1573.3	1556.0	1538.6	1521.3	1518.4	1514.0	1498.1	1492.3	1502.5	1490.9	1508.2
10°	1590.7	1593.6	1567.5	1544.4	1522.7	1492.3	1470.7	1457.6	1441.7	1459.1	1469.2
12.5°	1670.2	1641.3	1596.5	1560.3	1486.6	1456.2	1434.5	1428.7	1456.2	1462.0	1451.9
15°	1697.7	1693.3	1635.5	1554.5	1477.9	1441.7	1446.1	1434.5	1437.4	1422.9	1425.8
17.5°	1754.1	1704.9	1636.9	1535.7	1476.4	1467.8	1441.7	1395.5	1369.4	1357.9	1368.0
20°	1816.3	1768.5	1670.2	1543.0	1489.5	1466.3	1381.0	1324.6	1271.1	1242.2	1243.6
22.5°	1871.2	1811.9	1655.7	1545.8	1501.0	1405.6	1302.9	1191.6	1125.0	1080.2	1081.7
25°	1937.7	1853.9	1661.5	1551.6	1470.7	1308.7	1161.2	1052.7	973.2	942.8	953.0
27.5°	1975.3	1879.9	1693.3	1564.6	1391.1	1171.3	1012.2	911.0	864.7	850.3	848.8
30°	2088.1	1937.7	1732.4	1538.6	1258.1	1023.8	876.3	814.1	769.3	756.3	759.2
32.5°	2255.9	2043.3	1783.0	1470.7	1122.1	892.2	788.1	741.8	699.9	675.3	672.4
35°	2396.1	2224.1	1836.5	1365.1	964.5	791.0	725.9	668.1	604.5	577.0	569.8
37.5°	2663.7	2427.9	1824.9	1206.0	814.1	715.8	659.4	588.5	533.6	496.0	491.7
40°	3019.4	2666.5	1768.5	1012.2	702.8	649.3	588.5	520.6	452.6	420.8	417.9
42.5°	3451.8	2958.7	1665.9	815.6	591.4	582.8	527.8	449.7	389.0	365.9	367.3
45°	3803.2	3208.8	1561.8	655.1	509.0	517.7	470.0	396.2	354.3	335.5	335.5
47.5°	4115.5	3378.0	1449.0	540.8	432.4	452.6	410.7	367.3	331.1	316.7	313.8
50°	4416.3	3550.1	1336.2	438.2	368.7	389.0	384.7	349.9	321.0	303.7	305.1
52.5°	4604.3	3577.6	1193.0	358.6	322.5	345.6	360.1	328.3	296.4	286.3	283.4
55°	4374.4	3223.3	925.5	295.0	273.3	303.7	331.1	295.0	270.4	253.1	251.6
56°	4064.9	2882.0	773.6	271.9	258.8	292.1	321.0	282.0	254.5	244.4	237.2
57.5°	3441.6	2358.5	571.2	241.5	240.0	271.9	305.1	269.0	237.2	228.5	228.5
60°	2146.0	1327.5	345.6	202.4	208.2	241.5	274.8	240.0	211.1	211.1	215.5
62.5°	977.5	552.4	209.7	172.1	179.3	208.2	244.4	216.9	201.0	216.9	219.8
65°	332.6	238.6	151.8	137.4	141.7	172.1	209.7	219.8	218.4	228.5	234.3
67.5°	186.5	153.3	127.3	114.2	111.3	127.3	172.1	219.8	211.1	206.8	209.7
70°	157.6	130.1	112.8	101.2	96.9	102.7	133.0	166.3	148.9	144.6	141.7
72.5°	127.3	108.5	98.3	91.1	78.1	66.5	60.7	63.6	70.9	75.2	82.4
75°	89.7	82.4	82.4	73.7	56.4	41.9	33.3	27.5	18.8	13.0	14.5
77.5°	50.6	50.6	52.1	44.8	36.2	27.5	20.2	14.5	7.2	2.9	1.4
80°	34.7	37.6	40.5	36.2	30.4	24.6	17.4	10.1	4.3	0.0	0.0
82.5°	34.7	39.0	41.9	36.2	30.4	23.1	17.4	10.1	4.3	1.4	0.0
85°	7.2	8.7	10.1	11.6	17.4	17.4	13.0	8.7	4.3	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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)