

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: P528321

Luminaire Tested: **GALN-SA3B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528321
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-SA3B-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 7457 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

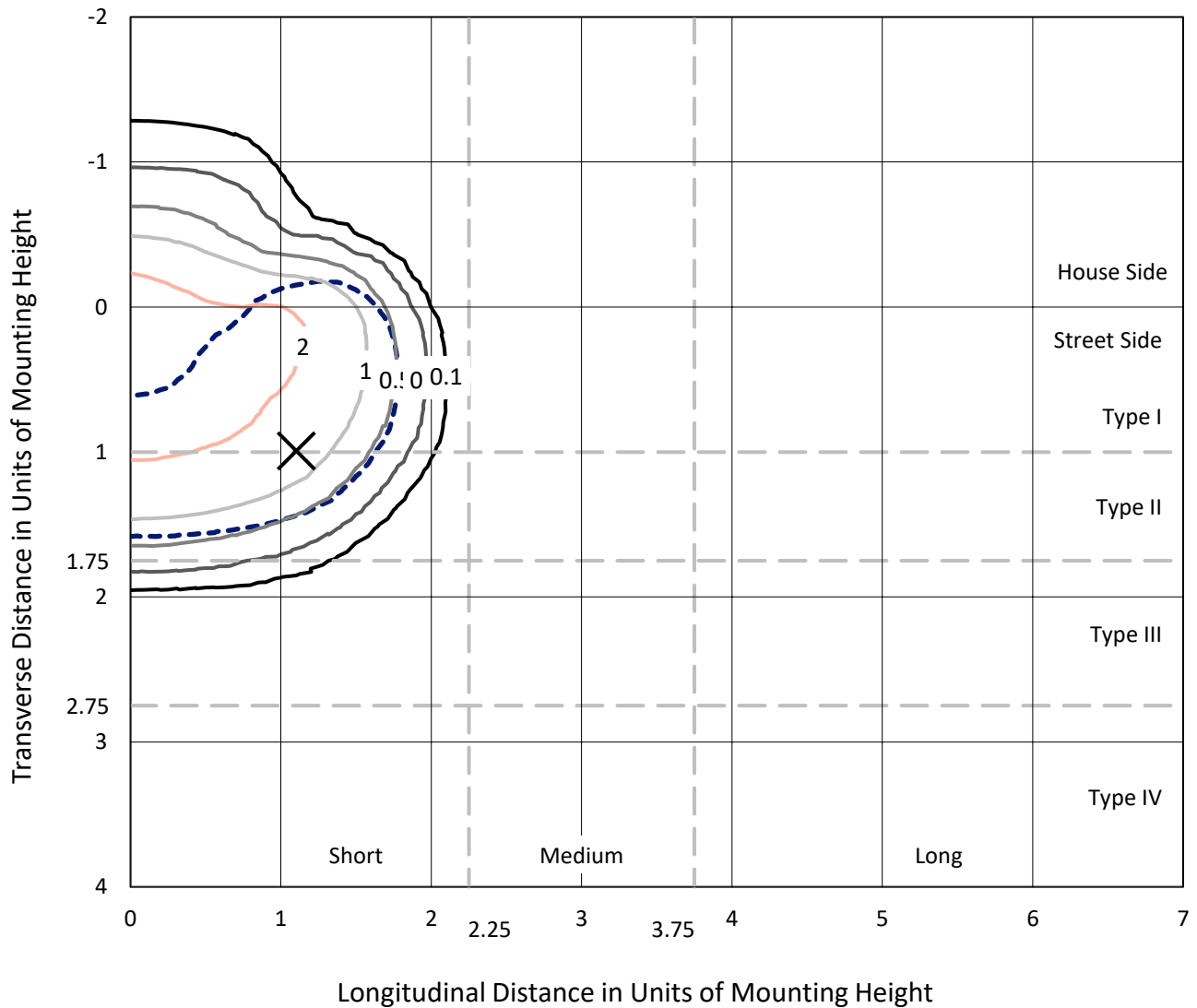
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

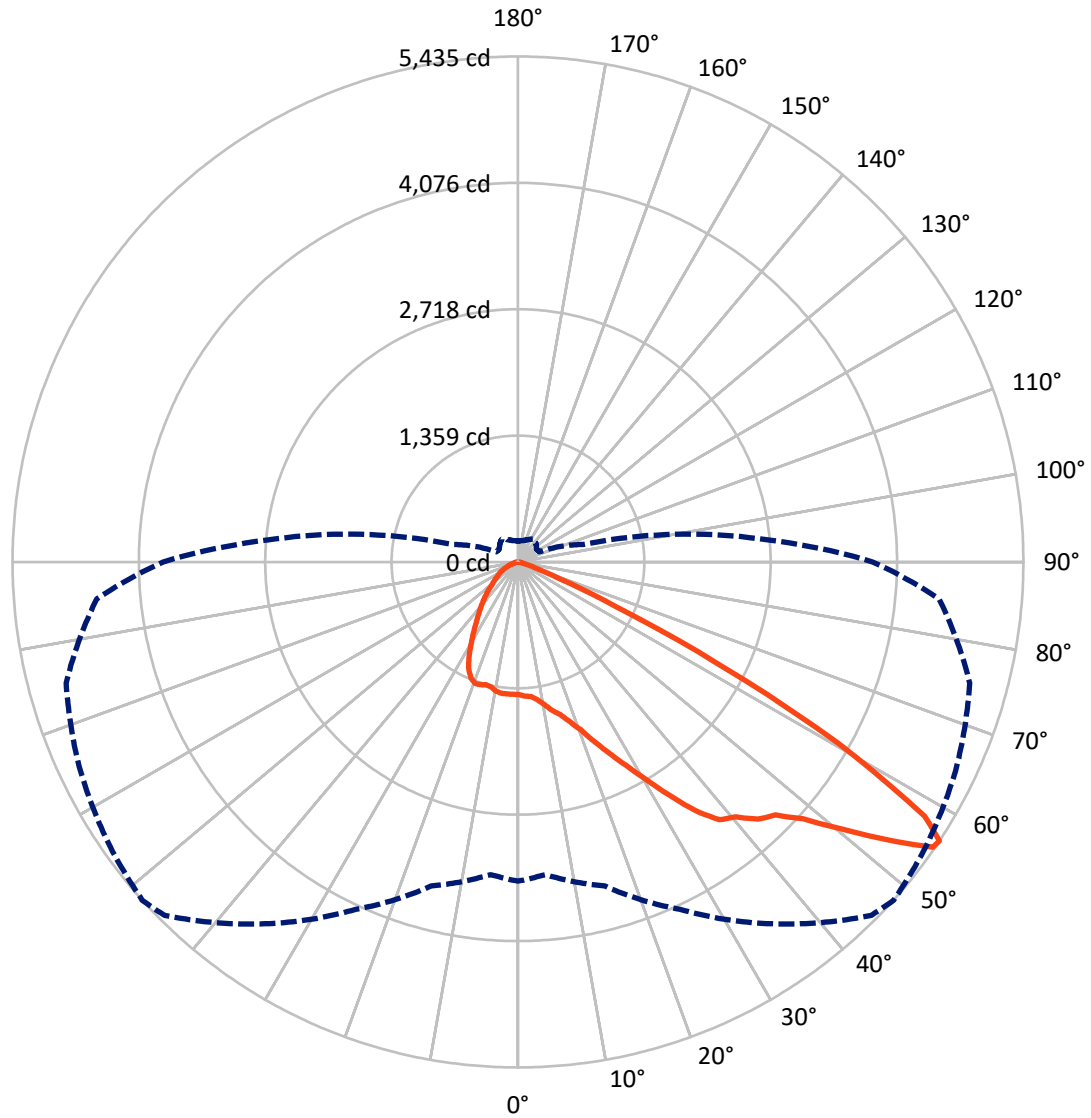
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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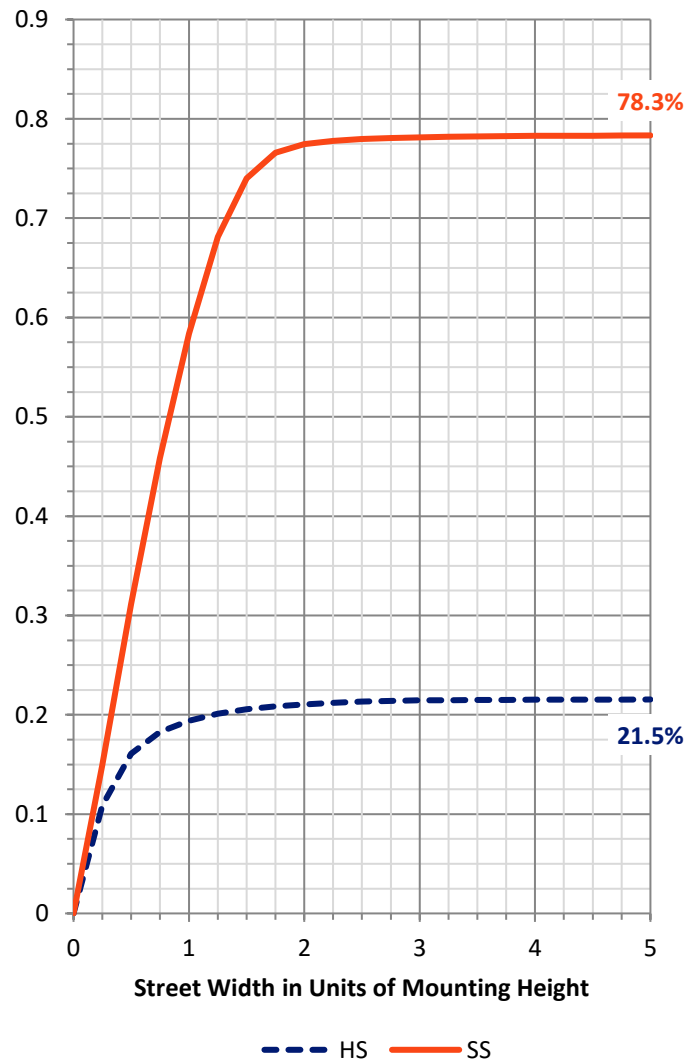
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.8	0.0	1621.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5835.3	0.0	5835.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	7457.0	0.0	7457.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.9
10°-20°	443.4	5.9
20°-30°	804.2	10.8
30°-40°	1263.3	16.9
40°-50°	1842.9	24.7
50°-60°	2220.3	29.8
60°-70°	650.1	8.7
70°-80°	82.5	1.1
80°-90°	11.6	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°	7457.0	100.0
0°-180°	7457.0	100.0



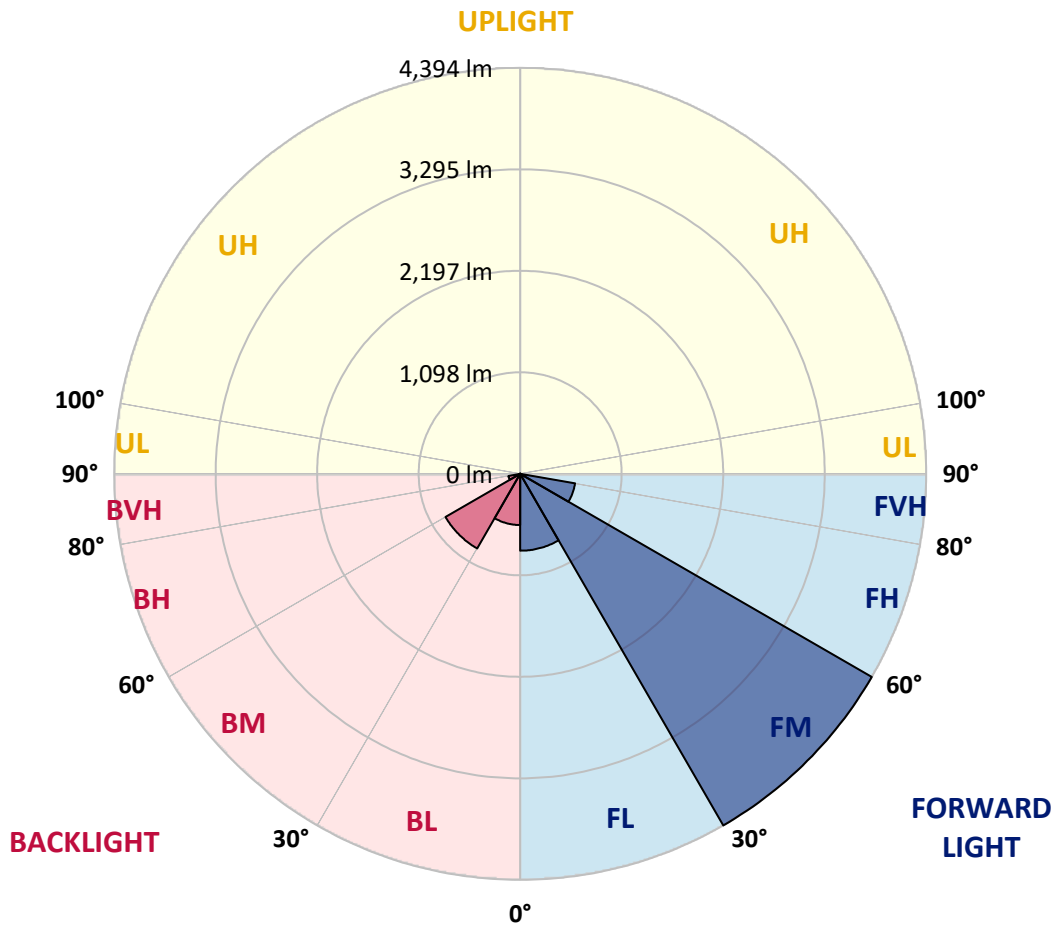
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.1	11.2			
FM (30°-60°)	4393.7	58.9			
FH (60°-80°)	603.7	8.1			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	554.3	7.4	B2/1000		
BM (30°-60°)	932.8	12.5	B1/1000		
BH (60°-80°)	128.9	1.7	B1/500		G1/500
BVH (80°-90°)	5.8	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°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1450.1	1443.3	1443.3	1432.4	1444.7	1439.2	1443.3	1429.7	1443.3	1422.9	1439.2
5°	1456.9	1458.2	1452.8	1459.6	1459.6	1467.7	1454.2	1466.4	1473.2	1458.2	1451.4
7.5°	1492.2	1494.9	1493.5	1488.1	1499.0	1497.6	1496.3	1486.7	1489.5	1484.0	1475.9
10°	1561.4	1560.1	1566.9	1553.3	1545.1	1554.6	1557.4	1542.4	1531.6	1527.5	1501.7
12.5°	1661.9	1645.6	1636.1	1622.5	1626.6	1613.0	1637.5	1611.7	1606.2	1581.8	1556.0
15°	1743.4	1740.6	1742.0	1720.3	1695.8	1701.3	1701.3	1687.7	1679.5	1649.7	1613.0
17.5°	1910.4	1853.3	1865.6	1838.4	1818.0	1816.7	1804.5	1807.2	1785.5	1723.0	1667.3
20°	2040.7	2016.3	1997.3	1951.1	1919.9	1929.4	1923.9	1910.4	1903.6	1822.1	1743.4
22.5°	2157.5	2165.6	2134.4	2122.2	2078.7	2082.8	2093.7	2081.4	2029.9	1945.7	1828.9
25°	2321.8	2312.3	2270.2	2255.2	2214.5	2229.4	2271.5	2262.0	2229.4	2077.4	1895.4
27.5°	2515.9	2483.3	2491.5	2423.6	2384.2	2426.3	2476.6	2524.1	2431.7	2232.2	1974.2
30°	2653.1	2619.1	2616.4	2613.7	2604.2	2653.1	2711.4	2754.9	2680.2	2386.9	2104.5
32.5°	2721.0	2729.1	2752.2	2744.0	2826.9	2927.3	2988.4	3050.9	2957.2	2639.5	2277.0
35°	2901.5	2849.9	2901.5	2907.0	2992.5	3205.7	3283.1	3432.4	3409.3	2996.6	2487.4
37.5°	3007.4	3003.4	3010.2	3061.7	3144.6	3408.0	3518.0	3633.4	3589.9	3211.1	2749.5
40°	3182.6	3193.5	3192.1	3231.5	3322.4	3560.0	3604.9	3698.5	3702.6	3508.5	3135.1
42.5°	3463.6	3420.2	3391.7	3432.4	3560.0	3691.7	3781.4	3762.4	3896.8	3869.6	3630.7
45°	3716.2	3742.0	3699.9	3767.8	3813.9	3884.6	3881.8	3922.6	4093.6	4222.6	4004.0
47.5°	3952.4	3968.7	3989.1	4035.3	4135.7	4146.6	4123.5	4105.9	4342.1	4475.2	4293.2
50°	4093.6	4108.6	4203.6	4286.4	4473.8	4498.3	4511.8	4467.0	4627.2	4642.2	4566.1
52.5°	4055.6	4071.9	4205.0	4477.9	4776.6	5000.6	4959.9	4883.9	4874.4	4932.7	4818.7
55°	3718.9	3704.0	3887.3	4312.2	4871.6	5409.3	5414.7	5334.6	5181.2	5141.8	4780.7
56°	3432.4	3374.0	3607.6	4120.8	4749.4	5374.0	5435.1	5349.6	5205.7	5029.1	4545.8
57.5°	2811.9	2867.6	3099.8	3524.7	4327.2	5120.1	5155.4	5135.0	5026.4	4730.4	4000.0
60°	1550.6	1648.3	1853.3	2373.4	3080.8	3929.4	3957.9	4123.5	4143.9	3622.5	2752.2
62.5°	658.5	647.7	860.8	1243.7	1754.2	2372.0	2425.0	2594.7	2625.9	2088.2	1380.8
65°	267.5	282.4	389.7	625.9	927.4	1080.8	1155.5	1211.1	1314.3	862.2	509.2
67.5°	176.5	175.2	229.5	357.1	499.7	482.0	482.0	509.2	471.1	351.7	220.0
70°	126.3	130.3	164.3	247.1	310.9	230.8	221.3	211.8	240.3	232.2	177.9
72.5°	82.8	88.3	110.0	148.0	161.6	126.3	126.3	152.1	198.2	187.4	145.3
75°	54.3	55.7	67.9	85.5	80.1	65.2	72.0	101.8	143.9	138.5	103.2
77.5°	36.7	38.0	46.2	55.7	44.8	36.7	39.4	51.6	70.6	70.6	54.3
80°	13.6	14.9	19.0	17.7	20.4	25.8	28.5	35.3	42.1	42.1	36.7
82.5°	0.0	1.4	4.1	9.5	14.9	20.4	23.1	27.2	31.2	35.3	33.9
85°	0.0	1.4	4.1	6.8	10.9	12.2	13.6	9.5	8.1	8.1	6.8
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.7	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°	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3	1424.3
2.5°	1424.3	1422.9	1422.9	1418.9	1427.0	1422.9	1425.6	1424.3	1406.6	1420.2	1410.7
5°	1439.2	1448.7	1433.8	1431.1	1420.2	1424.3	1424.3	1410.7	1422.9	1421.6	1418.9
7.5°	1477.2	1460.9	1444.7	1428.4	1425.6	1421.6	1406.6	1401.2	1410.7	1399.9	1416.1
10°	1493.5	1496.3	1471.8	1450.1	1429.7	1401.2	1380.8	1368.6	1353.7	1370.0	1379.5
12.5°	1568.2	1541.1	1499.0	1465.0	1395.8	1367.3	1346.9	1341.5	1367.3	1372.7	1363.2
15°	1594.0	1589.9	1535.6	1459.6	1387.6	1353.7	1357.8	1346.9	1349.6	1336.0	1338.8
17.5°	1647.0	1600.8	1537.0	1441.9	1386.3	1378.1	1353.7	1310.2	1285.8	1274.9	1284.4
20°	1705.3	1660.5	1568.2	1448.7	1398.5	1376.8	1296.7	1243.7	1193.5	1166.3	1167.7
22.5°	1756.9	1701.3	1554.6	1451.4	1409.4	1319.7	1223.3	1118.8	1056.3	1014.2	1015.6
25°	1819.4	1740.6	1560.1	1456.9	1380.8	1228.8	1090.3	988.4	913.8	885.3	894.8
27.5°	1854.7	1765.1	1589.9	1469.1	1306.2	1099.8	950.4	855.4	811.9	798.4	797.0
30°	1960.6	1819.4	1626.6	1444.7	1181.3	961.3	822.8	764.4	722.3	710.1	712.8
32.5°	2118.1	1918.5	1674.1	1380.8	1053.6	837.7	740.0	696.5	657.2	634.1	631.4
35°	2249.8	2088.2	1724.4	1281.7	905.6	742.7	681.6	627.3	567.5	541.7	535.0
37.5°	2501.0	2279.7	1713.5	1132.4	764.4	672.1	619.1	552.6	501.0	465.7	461.6
40°	2835.0	2503.7	1660.5	950.4	659.9	609.6	552.6	488.8	425.0	395.1	392.4
42.5°	3241.0	2778.0	1564.1	765.8	555.3	547.2	495.6	422.3	365.2	343.5	344.9
45°	3570.9	3012.9	1466.4	615.1	477.9	486.1	441.3	372.0	332.7	315.0	315.0
47.5°	3864.2	3171.7	1360.5	507.8	406.0	425.0	385.6	344.9	310.9	297.3	294.6
50°	4146.6	3333.3	1254.6	411.4	346.2	365.2	361.2	328.6	301.4	285.1	286.5
52.5°	4323.1	3359.1	1120.2	336.7	302.8	324.5	338.1	308.2	278.3	268.8	266.1
55°	4107.2	3026.4	869.0	277.0	256.6	285.1	310.9	277.0	253.9	237.6	236.3
56°	3816.7	2706.0	726.4	255.3	243.0	274.3	301.4	264.8	239.0	229.5	222.7
57.5°	3231.5	2214.5	536.3	226.7	225.4	255.3	286.5	252.5	222.7	214.5	214.5
60°	2014.9	1246.4	324.5	190.1	195.5	226.7	258.0	225.4	198.2	198.2	202.3
62.5°	917.8	518.7	196.9	161.6	168.4	195.5	229.5	203.7	188.7	203.7	206.4
65°	312.3	224.0	142.6	129.0	133.1	161.6	196.9	206.4	205.0	214.5	220.0
67.5°	175.2	143.9	119.5	107.3	104.5	119.5	161.6	206.4	198.2	194.2	196.9
70°	148.0	122.2	105.9	95.0	91.0	96.4	124.9	156.1	139.8	135.8	133.1
72.5°	119.5	101.8	92.3	85.5	73.3	62.5	57.0	59.7	66.5	70.6	77.4
75°	84.2	77.4	77.4	69.2	53.0	39.4	31.2	25.8	17.7	12.2	13.6
77.5°	47.5	47.5	48.9	42.1	33.9	25.8	19.0	13.6	6.8	2.7	1.4
80°	32.6	35.3	38.0	33.9	28.5	23.1	16.3	9.5	4.1	0.0	0.0
82.5°	32.6	36.7	39.4	33.9	28.5	21.7	16.3	9.5	4.1	1.4	0.0
85°	6.8	8.1	9.5	10.9	16.3	16.3	12.2	8.1	4.1	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)