

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: P528347

Luminaire Tested: **GALN-SA3B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528347
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-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 8061 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

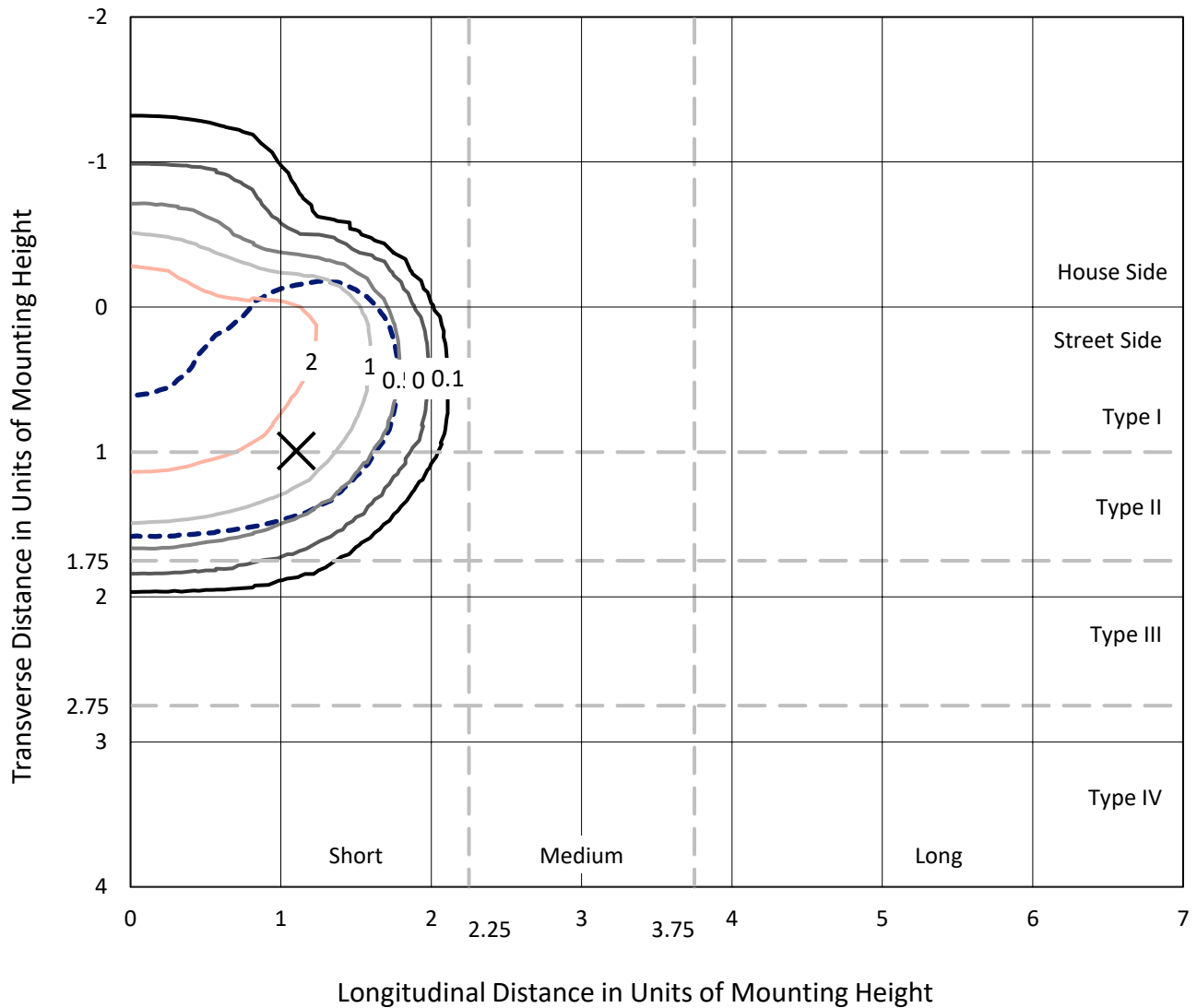
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

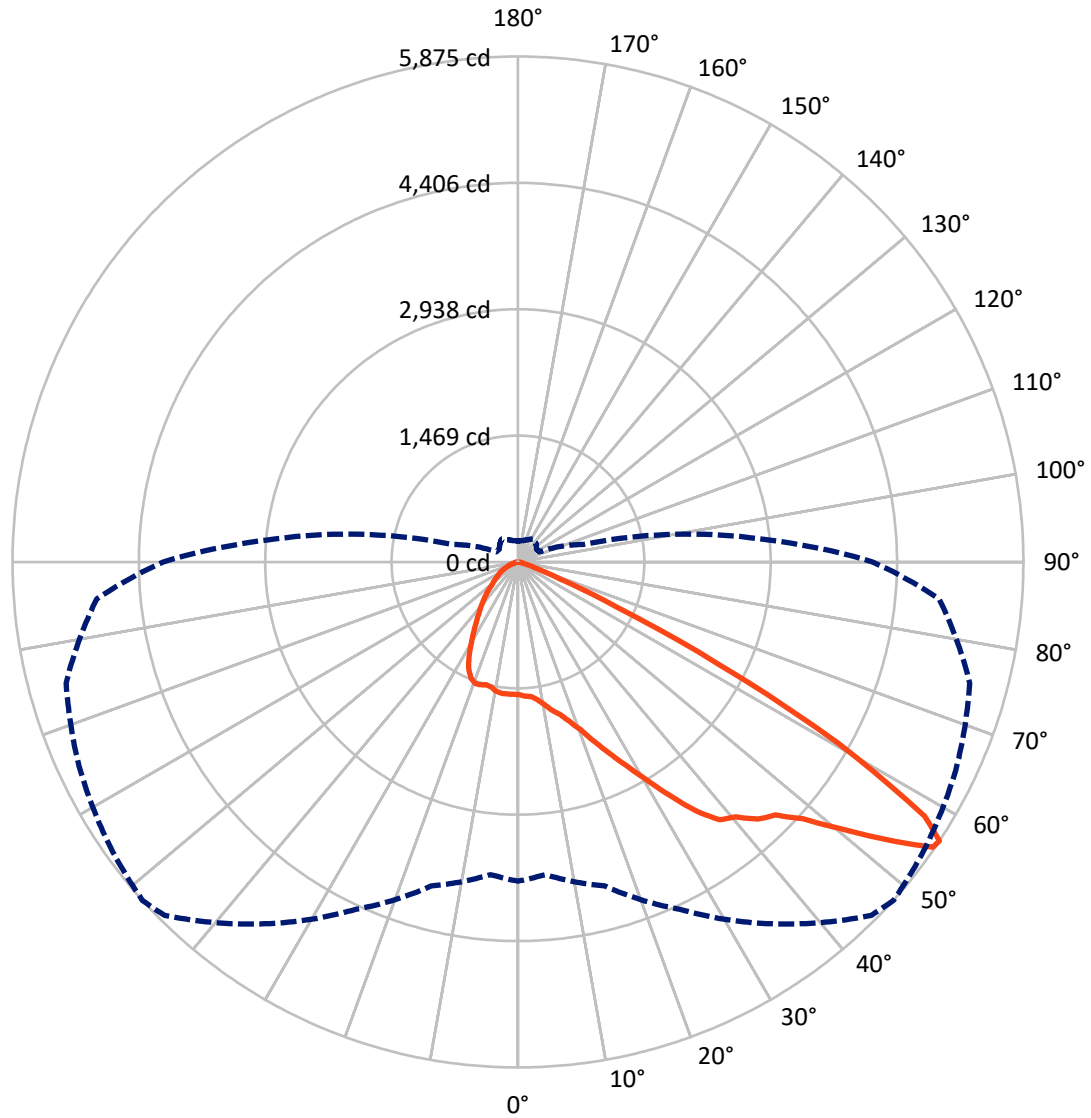
✕ Max cd
 - - - 1/2 Max cd



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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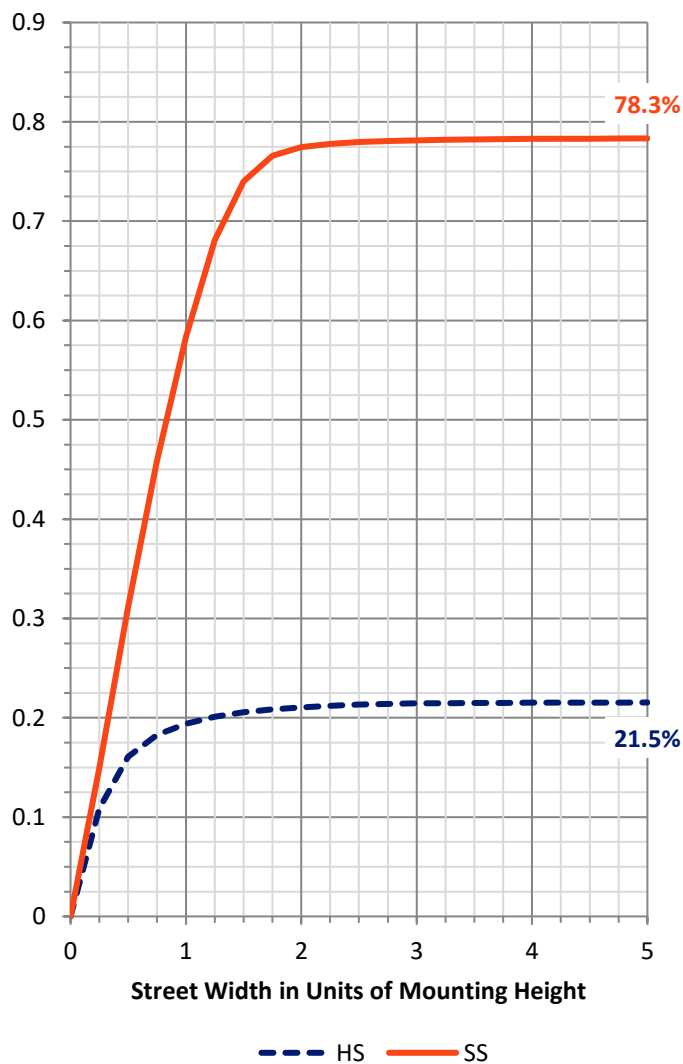
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.1	0.0	1753.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6307.9	0.0	6307.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	8061.0	0.0	8061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.9
10°-20°	479.3	5.9
20°-30°	869.4	10.8
30°-40°	1365.6	16.9
40°-50°	1992.2	24.7
50°-60°	2400.2	29.8
60°-70°	702.7	8.7
70°-80°	89.2	1.1
80°-90°	12.5	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°	8061.0	100.0
0°-180°	8061.0	100.0

Coefficient of Utilization

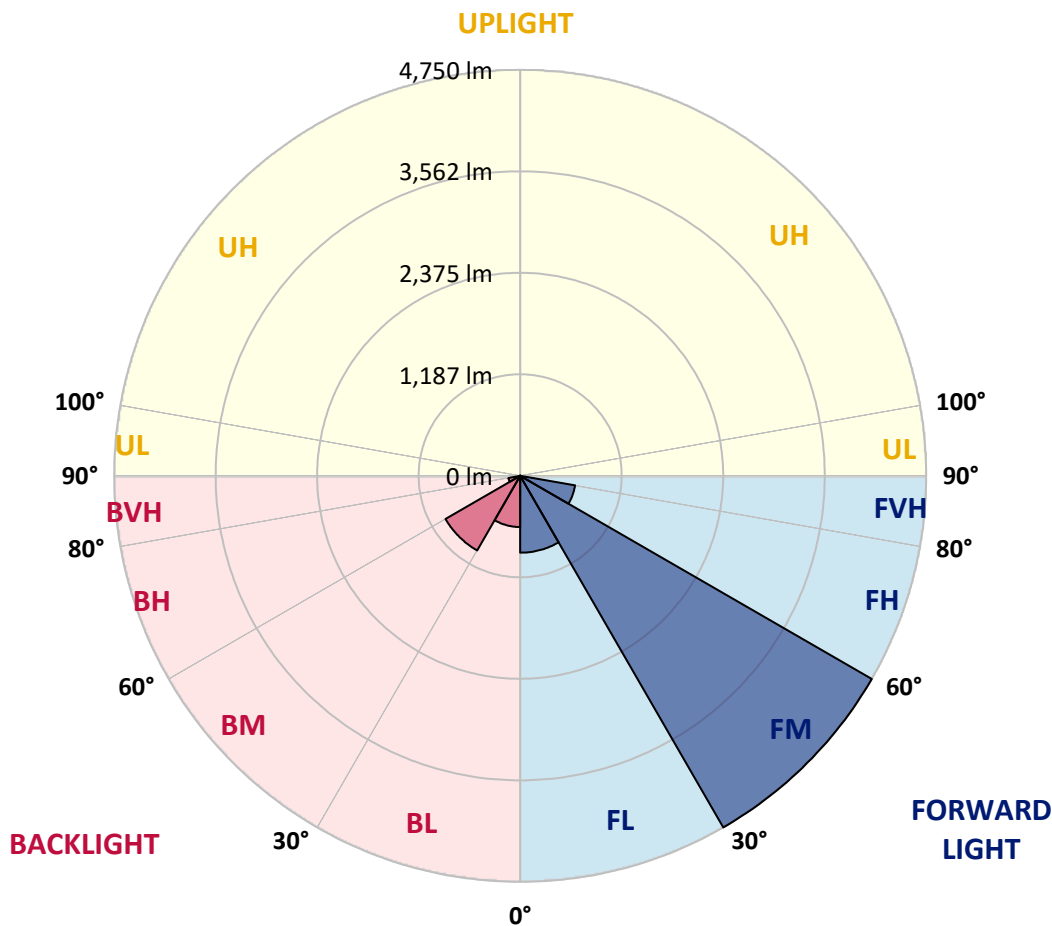


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.4	11.2			
FM (30°-60°)	4749.6	58.9			
FH (60°-80°)	652.6	8.1			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	599.2	7.4	B2/1000		
BM (30°-60°)	1008.4	12.5	B2/2500		
BH (60°-80°)	139.3	1.7	B1/500		G1/500
BVH (80°-90°)	6.2	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°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1567.5	1560.2	1560.2	1548.5	1561.7	1555.8	1560.2	1545.5	1560.2	1538.2	1555.8
5°	1574.9	1576.3	1570.5	1577.8	1577.8	1586.6	1571.9	1585.2	1592.5	1576.3	1569.0
7.5°	1613.0	1616.0	1614.5	1608.6	1620.4	1618.9	1617.4	1607.2	1610.1	1604.2	1595.4
10°	1687.9	1686.4	1693.8	1679.1	1670.3	1680.6	1683.5	1667.3	1655.6	1651.2	1623.3
12.5°	1796.5	1778.9	1768.6	1753.9	1758.3	1743.7	1770.1	1742.2	1736.3	1709.9	1682.0
15°	1884.6	1881.6	1883.1	1859.6	1833.2	1839.1	1839.1	1824.4	1815.6	1783.3	1743.7
17.5°	2065.1	2003.5	2016.7	1987.3	1965.3	1963.8	1950.6	1953.6	1930.1	1862.6	1802.4
20°	2206.0	2179.6	2159.0	2109.1	2075.4	2085.7	2079.8	2065.1	2057.8	1969.7	1884.6
22.5°	2332.2	2341.0	2307.3	2294.1	2247.1	2251.5	2263.2	2250.0	2194.3	2103.3	1977.0
25°	2509.8	2499.6	2454.1	2437.9	2393.9	2410.0	2455.5	2445.2	2410.0	2245.6	2049.0
27.5°	2719.7	2684.5	2693.3	2619.9	2577.3	2622.8	2677.1	2728.5	2628.7	2413.0	2134.1
30°	2868.0	2831.3	2828.3	2825.4	2815.1	2868.0	2931.1	2978.0	2897.3	2580.3	2275.0
32.5°	2941.3	2950.1	2975.1	2966.3	3055.8	3164.4	3230.5	3298.0	3196.7	2853.3	2461.4
35°	3136.6	3080.8	3136.6	3142.4	3234.9	3465.3	3549.0	3710.4	3685.5	3239.3	2688.9
37.5°	3251.0	3246.6	3254.0	3309.7	3399.3	3684.0	3802.9	3927.7	3880.7	3471.2	2972.2
40°	3440.4	3452.1	3450.6	3493.2	3591.5	3848.4	3896.8	3998.1	4002.5	3792.6	3389.0
42.5°	3744.2	3697.2	3666.4	3710.4	3848.4	3990.8	4087.6	4067.1	4212.4	4183.0	3924.7
45°	4017.2	4045.1	3999.6	4073.0	4122.9	4199.2	4196.3	4240.3	4425.2	4564.7	4328.4
47.5°	4272.6	4290.2	4312.2	4362.1	4470.7	4482.5	4457.5	4438.4	4693.8	4837.7	4641.0
50°	4425.2	4441.4	4544.1	4633.6	4836.2	4862.6	4877.3	4828.8	5002.0	5018.2	4936.0
52.5°	4384.1	4401.7	4545.6	4840.6	5163.5	5405.7	5361.6	5279.4	5269.2	5332.3	5209.0
55°	4020.1	4004.0	4202.1	4661.5	5266.2	5847.5	5853.3	5766.7	5600.9	5558.3	5167.9
56°	3710.4	3647.3	3899.8	4454.6	5134.1	5809.3	5875.3	5782.9	5627.3	5436.5	4914.0
57.5°	3039.7	3099.9	3350.8	3810.2	4677.7	5534.8	5573.0	5551.0	5433.6	5113.6	4323.9
60°	1676.2	1781.8	2003.5	2565.6	3330.3	4247.6	4278.4	4457.5	4479.5	3915.9	2975.1
62.5°	711.9	700.1	930.5	1344.4	1896.3	2564.1	2621.4	2804.8	2838.6	2257.4	1492.7
65°	289.1	305.3	421.2	676.6	1002.5	1168.3	1249.0	1309.2	1420.8	932.0	550.4
67.5°	190.8	189.3	248.0	386.0	540.1	521.0	521.0	550.4	509.3	380.1	237.8
70°	136.5	140.9	177.6	267.1	336.1	249.5	239.2	229.0	259.8	251.0	192.3
72.5°	89.5	95.4	118.9	160.0	174.7	136.5	136.5	164.4	214.3	202.5	157.0
75°	58.7	60.2	73.4	92.5	86.6	70.5	77.8	110.1	155.6	149.7	111.5
77.5°	39.6	41.1	49.9	60.2	48.4	39.6	42.6	55.8	76.3	76.3	58.7
80°	14.7	16.1	20.5	19.1	22.0	27.9	30.8	38.2	45.5	45.5	39.6
82.5°	0.0	1.5	4.4	10.3	16.1	22.0	25.0	29.4	33.8	38.2	36.7
85°	0.0	1.5	4.4	7.3	11.7	13.2	14.7	10.3	8.8	8.8	7.3
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	2.9	1.5	1.5
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°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1539.7	1538.2	1538.2	1533.8	1542.6	1538.2	1541.1	1539.7	1520.6	1535.3	1525.0
5°	1555.8	1566.1	1549.9	1547.0	1535.3	1539.7	1539.7	1525.0	1538.2	1536.7	1533.8
7.5°	1596.9	1579.3	1561.7	1544.1	1541.1	1536.7	1520.6	1514.7	1525.0	1513.2	1530.8
10°	1614.5	1617.4	1591.0	1567.5	1545.5	1514.7	1492.7	1479.5	1463.3	1480.9	1491.2
12.5°	1695.2	1665.9	1620.4	1583.7	1508.8	1478.0	1456.0	1450.1	1478.0	1483.9	1473.6
15°	1723.1	1718.7	1660.0	1577.8	1500.0	1463.3	1467.7	1456.0	1458.9	1444.3	1447.2
17.5°	1780.4	1730.5	1661.5	1558.7	1498.6	1489.8	1463.3	1416.4	1389.9	1378.2	1388.5
20°	1843.5	1795.0	1695.2	1566.1	1511.8	1488.3	1401.7	1344.4	1290.1	1260.8	1262.3
22.5°	1899.2	1839.1	1680.6	1569.0	1523.5	1426.6	1322.4	1209.4	1141.9	1096.4	1097.9
25°	1966.8	1881.6	1686.4	1574.9	1492.7	1328.3	1178.6	1068.5	987.8	957.0	967.2
27.5°	2004.9	1908.1	1718.7	1588.1	1412.0	1188.9	1027.4	924.7	877.7	863.0	861.6
30°	2119.4	1966.8	1758.3	1561.7	1276.9	1039.2	889.4	826.3	780.8	767.6	770.6
32.5°	2289.7	2073.9	1809.7	1492.7	1139.0	905.6	799.9	752.9	710.4	685.4	682.5
35°	2432.0	2257.4	1864.0	1385.5	979.0	802.9	736.8	678.1	613.5	585.6	578.3
37.5°	2703.6	2464.3	1852.3	1224.1	826.3	726.5	669.3	597.4	541.6	503.4	499.0
40°	3064.6	2706.5	1795.0	1027.4	713.3	659.0	597.4	528.4	459.4	427.1	424.2
42.5°	3503.5	3003.0	1690.8	827.8	600.3	591.5	535.7	456.5	394.8	371.3	372.8
45°	3860.1	3256.9	1585.2	664.9	516.6	525.4	477.0	402.2	359.6	340.5	340.5
47.5°	4177.2	3428.6	1470.7	548.9	438.9	459.4	416.8	372.8	336.1	321.4	318.5
50°	4482.5	3603.3	1356.2	444.7	374.3	394.8	390.4	355.2	325.8	308.2	309.7
52.5°	4673.3	3631.2	1210.9	364.0	327.3	350.8	365.5	333.2	300.9	290.6	287.7
55°	4439.9	3271.6	939.4	299.4	277.4	308.2	336.1	299.4	274.5	256.9	255.4
56°	4125.8	2925.2	785.2	275.9	262.7	296.5	325.8	286.2	258.3	248.0	240.7
57.5°	3493.2	2393.9	579.8	245.1	243.6	275.9	309.7	273.0	240.7	231.9	231.9
60°	2178.1	1347.4	350.8	205.5	211.4	245.1	278.9	243.6	214.3	214.3	218.7
62.5°	992.2	560.7	212.8	174.7	182.0	211.4	248.0	220.2	204.0	220.2	223.1
65°	337.6	242.2	154.1	139.4	143.8	174.7	212.8	223.1	221.6	231.9	237.8
67.5°	189.3	155.6	129.2	116.0	113.0	129.2	174.7	223.1	214.3	209.9	212.8
70°	160.0	132.1	114.5	102.7	98.3	104.2	135.0	168.8	151.2	146.8	143.8
72.5°	129.2	110.1	99.8	92.5	79.3	67.5	61.6	64.6	71.9	76.3	83.7
75°	91.0	83.7	83.7	74.9	57.2	42.6	33.8	27.9	19.1	13.2	14.7
77.5°	51.4	51.4	52.8	45.5	36.7	27.9	20.5	14.7	7.3	2.9	1.5
80°	35.2	38.2	41.1	36.7	30.8	25.0	17.6	10.3	4.4	0.0	0.0
82.5°	35.2	39.6	42.6	36.7	30.8	23.5	17.6	10.3	4.4	1.5	0.0
85°	7.3	8.8	10.3	11.7	17.6	17.6	13.2	8.8	4.4	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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)