

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: P527647

Luminaire Tested: **GALN-SA2C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6833 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 108
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

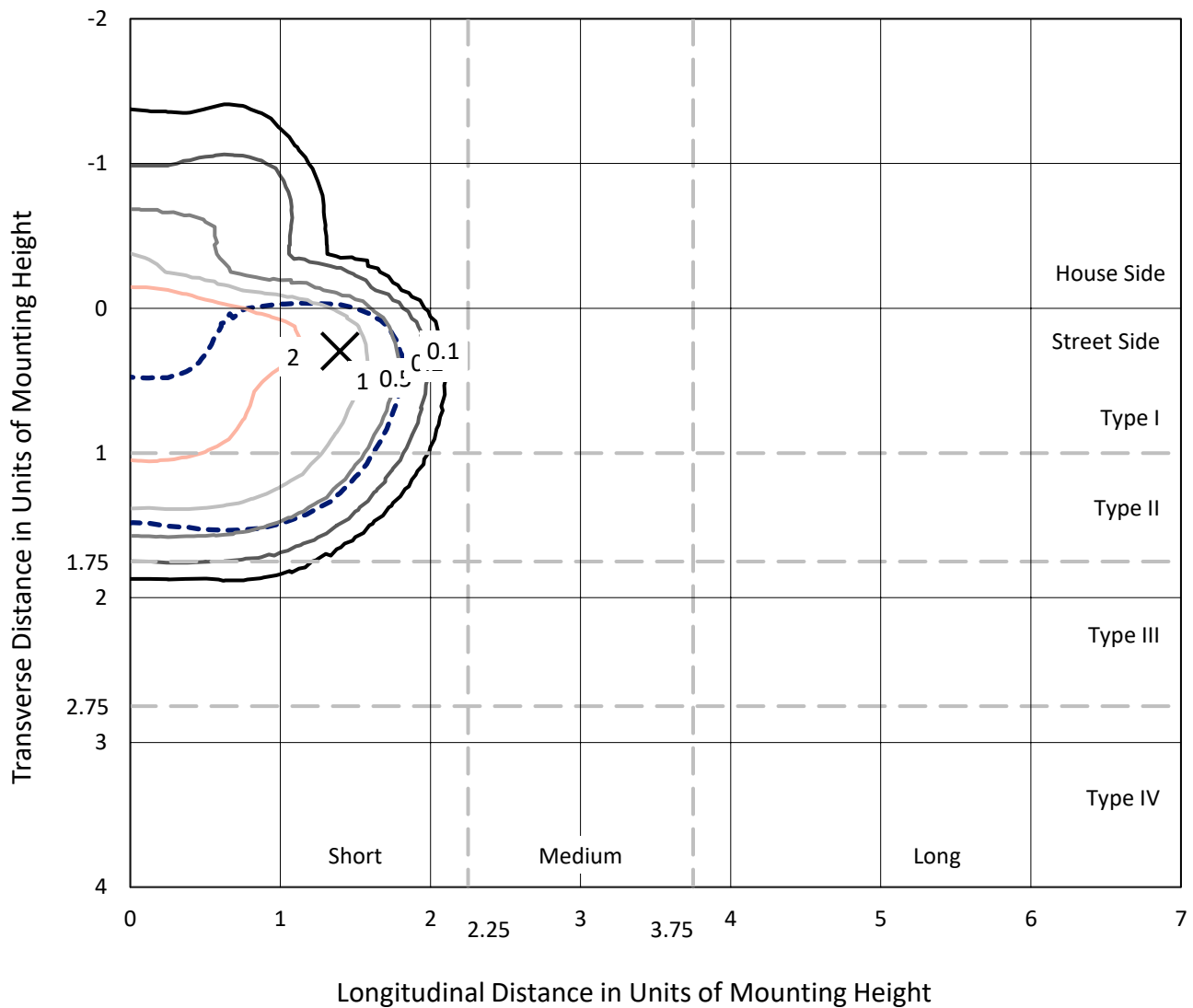


REPORT NUMBER: P527647

CATALOG NUMBER: GALN-SA2C-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

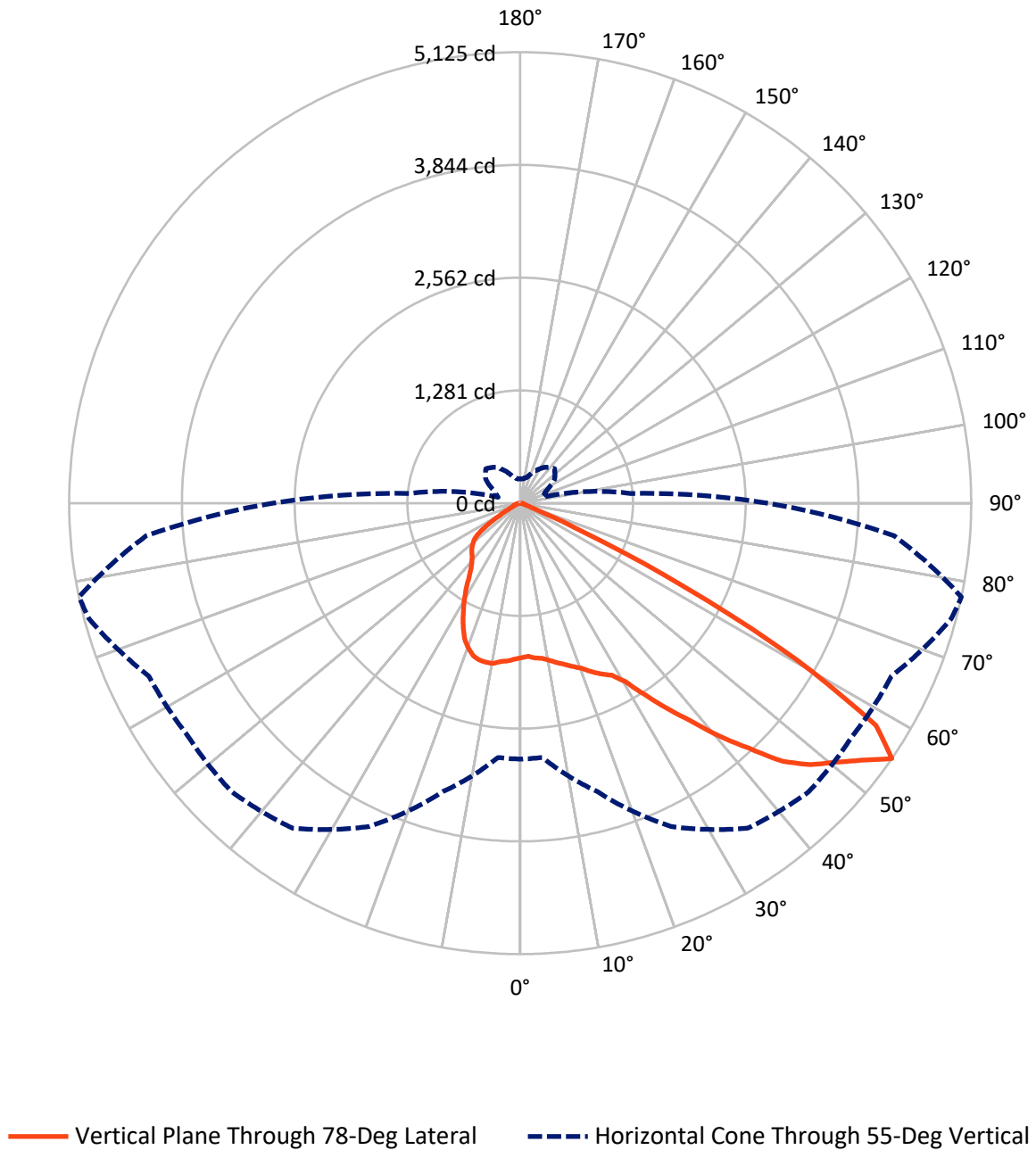


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

REPORT NUMBER: P527647

CATALOG NUMBER: GALN-SA2C-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.1	0.0	1269.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5563.8	0.0	5563.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	6833.0	0.0	6833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	2.3
10°-20°	414.6	6.1
20°-30°	726.7	10.6
30°-40°	1198.2	17.5
40°-50°	1743.5	25.5
50°-60°	1975.6	28.9
60°-70°	564.8	8.3
70°-80°	43.9	0.6
80°-90°	9.1	0.1
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°	6833.0	100.0
0°-180°	6833.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527647

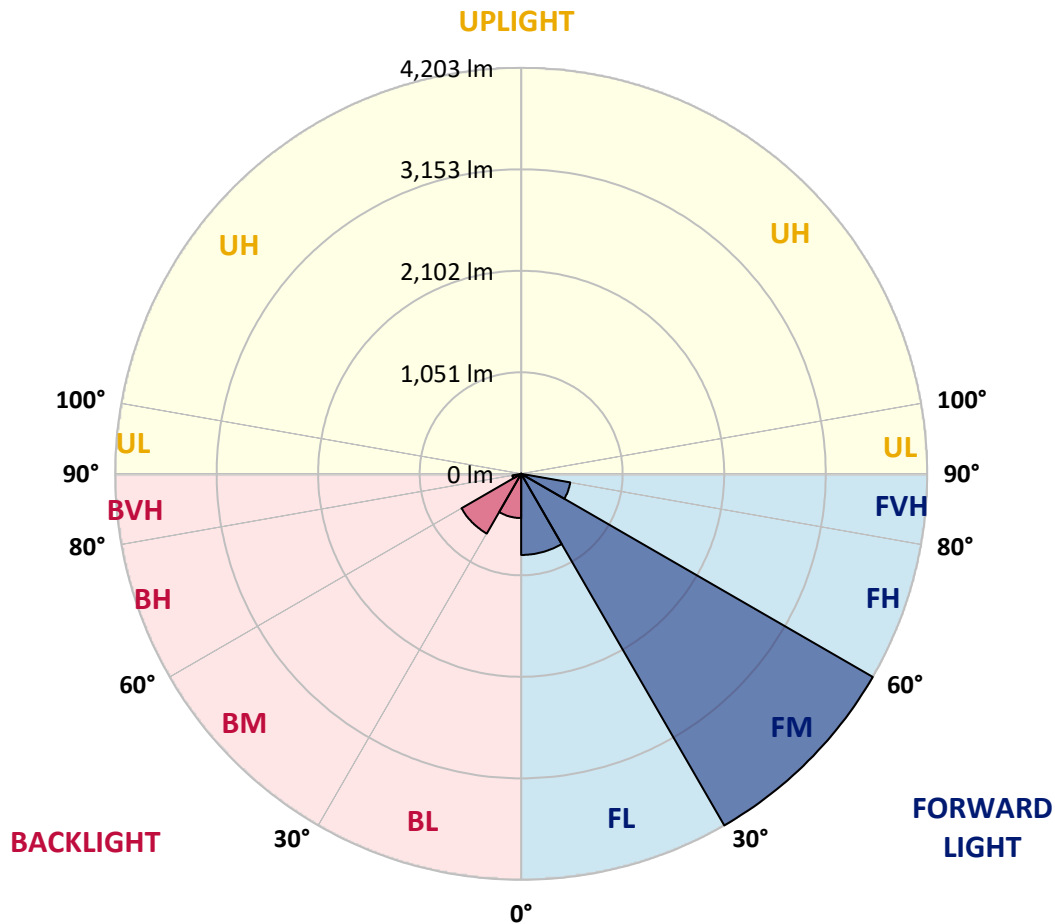
CATALOG NUMBER: GALN-SA2C-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.0	12.3			
FM	(30°-60°)	4203.4	61.5			
FH	(60°-80°)	516.1	7.6			G0/660
FVH	(80°-90°)	4.4	0.1			G0/10
BL	(0°-30°)	457.9	6.7	B1/500		
BM	(30°-60°)	713.9	10.4	B1/1000		
BH	(60°-80°)	92.6	1.4	B0/110		G0/110
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



REPORT NUMBER: P527647

CATALOG NUMBER: GALN-SA2C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8
2.5°	1651.7	1667.6	1670.0	1689.6	1688.4	1721.3	1731.1	1732.3	1754.3	1743.3	1771.4
5°	1605.3	1596.7	1593.1	1627.3	1637.0	1666.4	1690.8	1705.5	1750.7	1766.5	1795.9
7.5°	1563.7	1563.7	1566.2	1596.7	1593.1	1630.9	1656.6	1701.8	1767.8	1781.2	1816.6
10°	1523.4	1508.8	1527.1	1558.9	1585.7	1602.8	1656.6	1699.3	1776.3	1815.4	1864.3
12.5°	1502.7	1510.0	1512.4	1535.6	1565.0	1616.3	1645.6	1716.5	1837.4	1860.6	1913.1
15°	1633.4	1618.7	1583.3	1562.5	1587.0	1611.4	1684.7	1756.8	1869.2	1902.1	1960.8
17.5°	1784.9	1772.7	1743.3	1687.1	1632.2	1677.4	1734.8	1800.7	1903.4	1952.2	2039.0
20°	1982.8	1963.2	1933.9	1824.0	1776.3	1727.4	1788.5	1866.7	1959.6	2003.5	2092.7
22.5°	2218.6	2218.6	2152.6	2019.4	1920.5	1874.0	1899.7	1944.9	2021.9	2081.7	2169.7
25°	2464.1	2456.8	2396.9	2258.9	2091.5	2036.5	2065.9	2097.6	2118.4	2151.4	2210.0
27.5°	2745.1	2702.3	2626.6	2473.9	2326.1	2219.8	2251.5	2223.4	2197.8	2214.9	2299.2
30°	2935.7	2962.6	2866.0	2719.4	2580.2	2461.7	2467.8	2443.3	2326.1	2350.5	2400.6
32.5°	3133.6	3150.7	3096.9	3016.3	2877.0	2739.0	2688.9	2668.1	2580.2	2591.2	2542.3
35°	3298.5	3331.5	3283.9	3248.4	3208.1	3096.9	2958.9	3026.1	2884.4	2857.5	2730.4
37.5°	3450.0	3440.2	3496.4	3459.8	3451.2	3373.0	3221.6	3235.0	3139.7	3133.6	2987.0
40°	3585.6	3588.1	3665.0	3682.1	3647.9	3508.6	3288.7	3395.0	3472.0	3479.3	3291.2
42.5°	3698.0	3731.0	3797.0	3935.0	3883.7	3651.6	3358.4	3474.4	3760.3	3805.5	3579.5
45°	3795.7	3862.9	3944.8	4068.2	4038.9	3854.4	3531.9	3638.1	4068.2	4186.7	3850.7
47.5°	3801.9	3889.8	3979.0	4162.2	4198.9	3963.1	3711.4	3897.1	4312.5	4440.8	4048.6
50°	3777.4	3823.8	4002.2	4201.3	4284.4	4140.3	3963.1	4114.6	4549.5	4630.1	4148.8
52.5°	3487.9	3523.3	3881.3	4238.0	4438.3	4340.6	4296.6	4417.6	4791.4	4851.3	4242.9
55°	2907.6	2901.5	3393.8	4053.5	4509.2	4637.5	4610.6	4653.4	5071.2	5124.9	4266.1
57.5°	1988.9	2100.1	2525.2	3375.5	4075.5	4567.8	4595.9	4525.1	4745.0	4765.8	3718.8
60°	1072.6	1119.1	1461.1	2252.8	3103.1	3722.4	3795.7	3667.5	3650.4	3591.7	2654.7
62.5°	426.4	449.6	643.8	1115.4	1690.8	2262.5	2420.1	2367.6	2255.2	2101.3	1374.4
65°	202.8	217.5	320.1	521.7	750.1	943.1	1100.7	1149.6	847.8	763.5	453.2
67.5°	138.0	149.0	233.3	298.1	267.5	279.8	364.1	338.4	199.1	169.8	125.8
70°	105.1	112.4	186.9	202.8	119.7	84.3	94.1	88.0	81.9	83.1	81.9
72.5°	74.5	80.6	136.8	119.7	52.5	39.1	50.1	59.9	59.9	59.9	58.6
75°	45.2	51.3	79.4	46.4	20.8	20.8	31.8	40.3	42.8	44.0	41.5
77.5°	23.2	29.3	26.9	13.4	13.4	15.9	23.2	28.1	30.5	30.5	29.3
80°	4.9	4.9	4.9	7.3	13.4	17.1	23.2	25.7	29.3	29.3	26.9
82.5°	0.0	1.2	3.7	7.3	12.2	15.9	22.0	25.7	29.3	30.5	28.1
85°	0.0	1.2	2.4	4.9	8.6	9.8	8.6	7.3	7.3	7.3	7.3
87.5°	0.0	0.0	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P527647

CATALOG NUMBER: GALN-SA2C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8
2.5°	1773.9	1777.5	1771.4	1770.2	1765.3	1780.0	1744.6	1736.0	1758.0	1737.2	1742.1
5°	1797.1	1805.6	1794.6	1776.3	1749.4	1707.9	1672.5	1626.0	1604.1	1588.2	1585.7
7.5°	1814.2	1820.3	1809.3	1750.7	1670.0	1565.0	1486.8	1429.4	1384.2	1370.7	1348.7
10°	1883.8	1885.0	1830.1	1700.6	1543.0	1404.9	1285.2	1197.2	1152.0	1123.9	1111.7
12.5°	1930.2	1927.8	1816.6	1601.6	1391.5	1208.2	1071.4	965.1	923.6	910.1	901.6
15°	1988.9	1975.4	1784.9	1500.2	1196.0	998.1	874.7	801.4	797.8	789.2	797.8
17.5°	2035.3	1997.4	1738.4	1315.7	1009.1	822.2	741.6	746.4	756.2	764.8	766.0
20°	2111.1	2032.9	1632.2	1154.5	835.6	704.9	703.7	725.7	750.1	759.9	769.7
22.5°	2168.5	2047.5	1518.5	982.2	693.9	657.3	678.0	711.0	729.3	739.1	753.8
25°	2189.2	2007.2	1367.1	810.0	625.5	635.3	667.0	689.0	712.2	723.2	717.1
27.5°	2210.0	1986.4	1186.2	667.0	588.8	620.6	647.5	669.5	676.8	691.5	701.2
30°	2260.1	1914.4	1023.8	576.6	570.5	610.8	630.4	637.7	657.3	665.8	665.8
32.5°	2300.4	1886.3	851.5	533.9	568.1	615.7	618.2	618.2	620.6	614.5	612.1
35°	2383.5	1789.8	697.6	508.2	566.9	616.9	623.1	602.3	546.1	524.1	518.0
37.5°	2486.1	1727.4	584.0	502.1	575.4	631.6	641.4	563.2	489.9	454.5	448.4
40°	2610.7	1683.5	509.4	499.7	595.0	665.8	636.5	532.7	437.4	386.0	383.6
42.5°	2756.1	1643.2	459.3	498.4	619.4	701.2	631.6	507.0	383.6	349.4	354.3
45°	2872.2	1621.2	425.1	489.9	627.9	722.0	635.3	461.8	361.6	339.6	342.1
47.5°	2962.6	1574.7	397.0	475.2	626.7	729.3	602.3	443.5	350.6	356.7	362.8
50°	2965.0	1512.4	361.6	443.5	608.4	715.9	564.4	426.4	348.2	373.8	386.0
52.5°	2932.0	1424.5	323.7	398.3	565.6	669.5	530.2	419.0	337.2	334.7	349.4
55°	2814.7	1259.5	260.2	322.5	477.7	552.2	499.7	405.6	304.2	276.1	278.5
57.5°	2274.8	902.8	191.8	230.9	338.4	404.4	450.8	399.5	273.7	234.6	235.8
60°	1408.6	511.9	140.5	157.6	208.9	245.6	365.3	371.4	244.3	197.9	195.5
62.5°	723.2	252.9	108.7	111.2	128.3	144.2	250.4	311.5	221.1	188.1	188.1
65°	241.9	124.6	95.3	85.5	85.5	89.2	151.5	216.2	186.9	157.6	157.6
67.5°	103.8	92.8	83.1	74.5	68.4	64.7	85.5	125.8	139.3	119.7	114.8
70°	80.6	78.2	72.1	62.3	53.8	48.9	50.1	64.7	79.4	77.0	74.5
72.5°	59.9	59.9	57.4	48.9	41.5	35.4	33.0	34.2	37.9	39.1	40.3
75°	41.5	42.8	42.8	37.9	30.5	25.7	22.0	18.3	14.7	12.2	11.0
77.5°	28.1	29.3	31.8	28.1	23.2	17.1	13.4	9.8	6.1	2.4	2.4
80°	24.4	28.1	30.5	28.1	24.4	18.3	13.4	7.3	3.7	0.0	0.0
82.5°	25.7	28.1	31.8	26.9	23.2	17.1	13.4	8.6	3.7	1.2	0.0
85°	6.1	6.1	7.3	8.6	11.0	12.2	9.8	6.1	3.7	1.2	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	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)