

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: P528115

Luminaire Tested: **GALN-SA3A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528115
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-SA3A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 6597 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 93
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

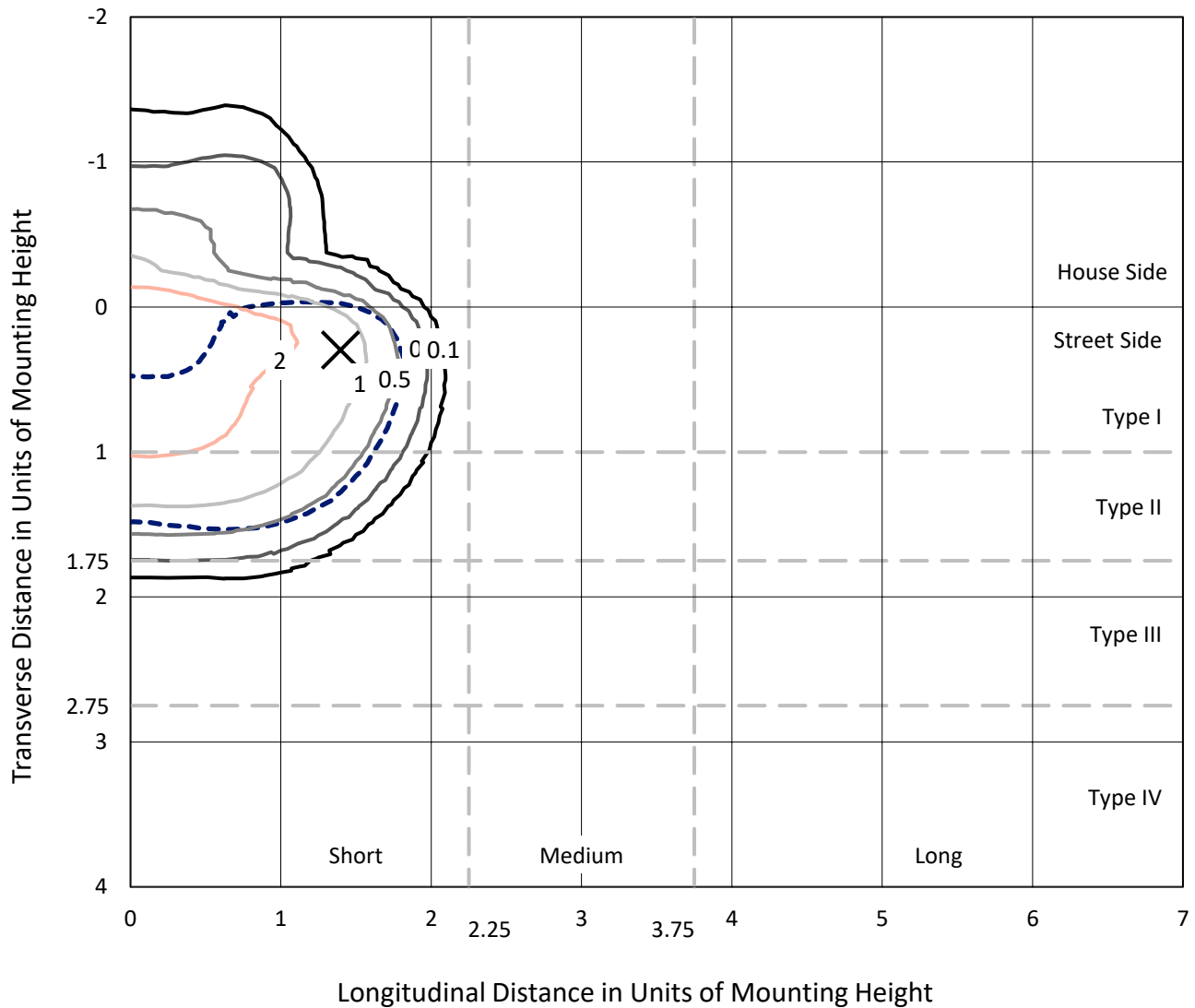


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

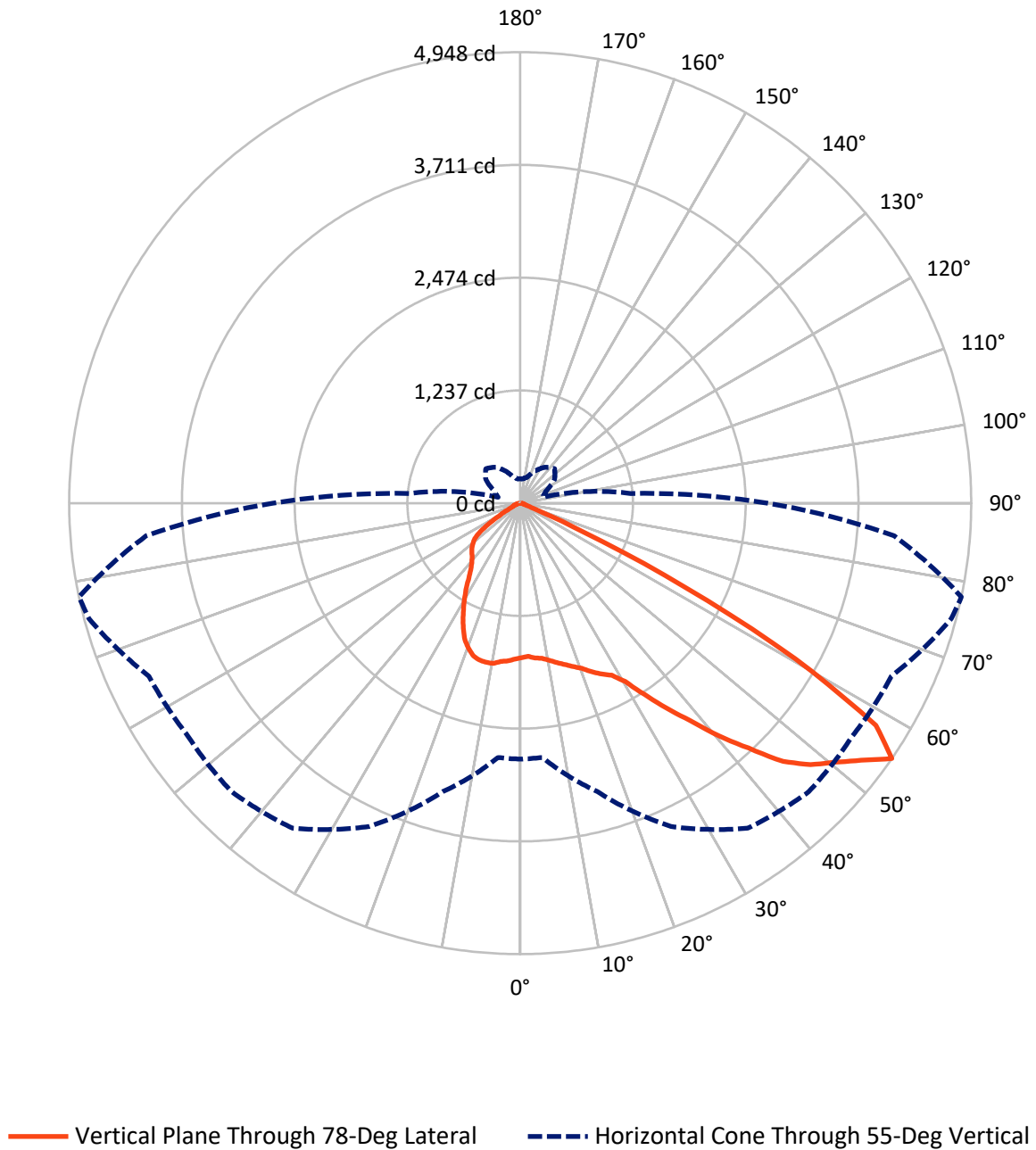


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1225.3	0.0	1225.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5371.7	0.0	5371.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	6597.0	0.0	6597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.3
10°-20°	400.3	6.1
20°-30°	701.6	10.6
30°-40°	1156.8	17.5
40°-50°	1683.3	25.5
50°-60°	1907.3	28.9
60°-70°	545.4	8.3
70°-80°	42.3	0.6
80°-90°	8.8	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°	6597.0	100.0
0°-180°	6597.0	100.0

Coefficient of Utilization



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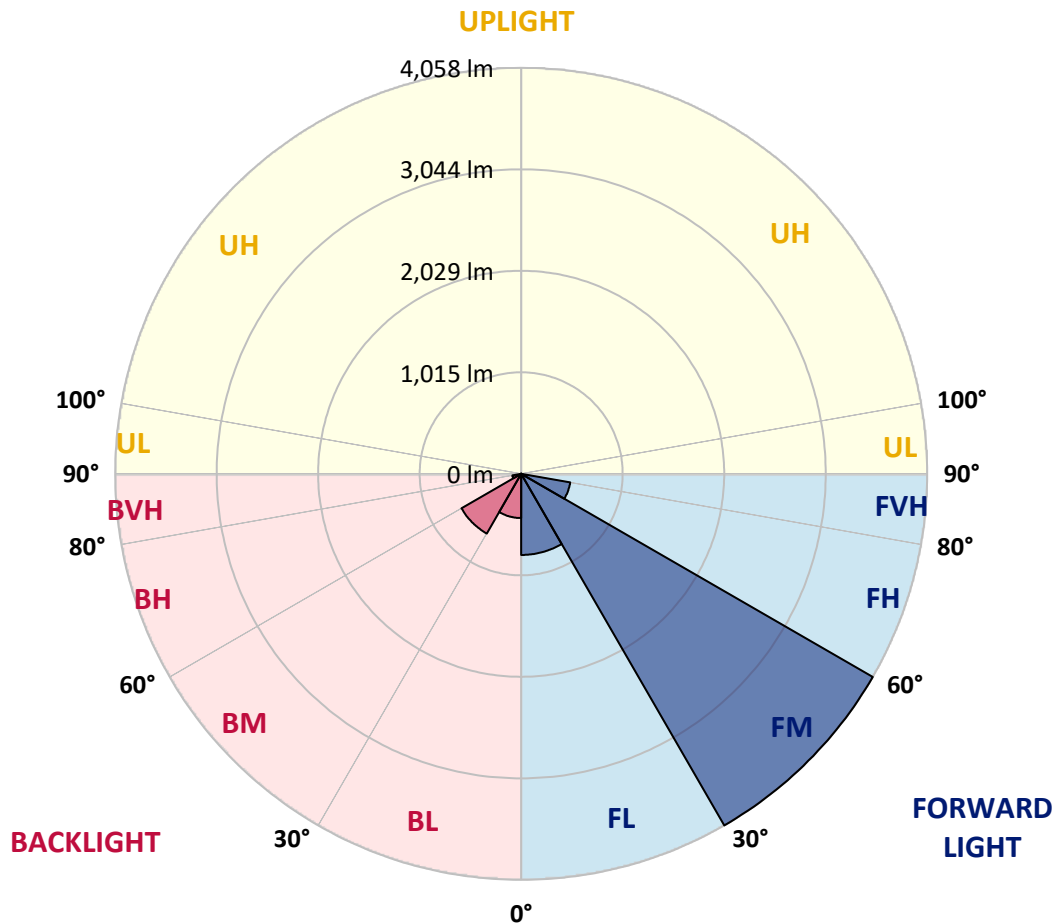
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.0	12.3			
FM	(30°-60°)	4058.2	61.5			
FH	(60°-80°)	498.2	7.6			G0/660
FVH	(80°-90°)	4.3	0.1			G0/10
BL	(0°-30°)	442.1	6.7	B1/500		
BM	(30°-60°)	689.3	10.4	B1/1000		
BH	(60°-80°)	89.4	1.4	B0/110		G0/110
BVH	(80°-90°)	4.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1594.7	1610.0	1612.3	1631.2	1630.0	1661.9	1671.3	1672.5	1693.7	1683.1	1710.2
5°	1549.8	1541.6	1538.0	1571.1	1580.5	1608.8	1632.4	1646.6	1690.2	1705.5	1733.8
7.5°	1509.7	1509.7	1512.1	1541.6	1538.0	1574.6	1599.4	1643.0	1706.7	1719.7	1753.9
10°	1470.8	1456.7	1474.4	1505.0	1531.0	1547.5	1599.4	1640.7	1715.0	1752.7	1799.9
12.5°	1450.8	1457.8	1460.2	1482.6	1510.9	1560.5	1588.8	1657.2	1773.9	1796.3	1847.1
15°	1577.0	1562.8	1528.6	1508.6	1532.1	1555.7	1626.5	1696.1	1804.6	1836.5	1893.1
17.5°	1723.2	1711.4	1683.1	1628.9	1575.8	1619.4	1674.9	1738.6	1837.6	1884.8	1968.6
20°	1914.3	1895.4	1867.1	1761.0	1715.0	1667.8	1726.8	1802.2	1891.9	1934.3	2020.4
22.5°	2141.9	2141.9	2078.2	1949.7	1854.1	1809.3	1834.1	1877.7	1952.0	2009.8	2094.8
25°	2379.0	2371.9	2314.1	2180.9	2019.3	1966.2	1994.5	2025.2	2045.2	2077.1	2133.7
27.5°	2650.3	2609.0	2535.9	2388.4	2245.7	2143.1	2173.8	2146.7	2121.9	2138.4	2219.8
30°	2834.3	2860.2	2767.1	2625.5	2491.1	2376.7	2382.6	2359.0	2245.7	2269.3	2317.7
32.5°	3025.4	3041.9	2990.0	2912.1	2777.7	2644.4	2596.0	2576.0	2491.1	2501.7	2454.5
35°	3184.6	3216.4	3170.4	3136.2	3097.3	2990.0	2856.7	2921.6	2784.8	2758.8	2636.1
37.5°	3330.9	3321.4	3375.7	3340.3	3332.0	3256.5	3110.3	3123.3	3031.3	3025.4	2883.8
40°	3461.8	3464.1	3538.4	3555.0	3521.9	3387.5	3175.2	3277.8	3352.1	3359.2	3177.5
42.5°	3570.3	3602.1	3665.8	3799.1	3749.6	3525.5	3242.4	3354.4	3630.4	3674.1	3455.9
45°	3664.6	3729.5	3808.5	3927.7	3899.4	3721.3	3409.9	3512.5	3927.7	4042.1	3717.7
47.5°	3670.5	3755.5	3841.6	4018.5	4053.9	3826.2	3583.3	3762.5	4163.6	4287.4	3908.8
50°	3647.0	3691.8	3864.0	4056.2	4136.4	3997.3	3826.2	3972.5	4392.4	4470.2	4005.5
52.5°	3367.4	3401.6	3747.2	4091.6	4285.1	4190.7	4148.2	4265.0	4625.9	4683.7	4096.3
55°	2807.2	2801.3	3276.6	3913.5	4353.5	4477.3	4451.4	4492.6	4896.0	4947.9	4118.7
57.5°	1920.2	2027.5	2438.0	3258.9	3934.7	4410.1	4437.2	4368.8	4581.1	4601.2	3590.3
60°	1035.6	1080.4	1410.7	2175.0	2995.9	3593.9	3664.6	3540.8	3524.3	3467.7	2563.0
62.5°	411.6	434.0	621.6	1076.9	1632.4	2184.4	2336.6	2285.8	2177.3	2028.7	1326.9
65°	195.8	209.9	309.0	503.6	724.2	910.6	1062.7	1109.9	818.6	737.2	437.6
67.5°	133.3	143.9	225.3	287.8	258.3	270.1	351.5	326.7	192.3	163.9	121.5
70°	101.4	108.5	180.5	195.8	115.6	81.4	90.8	84.9	79.0	80.2	79.0
72.5°	71.9	77.8	132.1	115.6	50.7	37.7	48.4	57.8	57.8	57.8	56.6
75°	43.6	49.5	76.7	44.8	20.1	20.1	30.7	38.9	41.3	42.5	40.1
77.5°	22.4	28.3	25.9	13.0	13.0	15.3	22.4	27.1	29.5	29.5	28.3
80°	4.7	4.7	4.7	7.1	13.0	16.5	22.4	24.8	28.3	28.3	25.9
82.5°	0.0	1.2	3.5	7.1	11.8	15.3	21.2	24.8	28.3	29.5	27.1
85°	0.0	1.2	2.4	4.7	8.3	9.4	8.3	7.1	7.1	7.1	7.1
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1712.6	1716.1	1710.2	1709.1	1704.3	1718.5	1684.3	1676.0	1697.3	1677.2	1681.9
5°	1735.0	1743.3	1732.7	1715.0	1689.0	1648.9	1614.7	1569.9	1548.7	1533.3	1531.0
7.5°	1751.5	1757.4	1746.8	1690.2	1612.3	1510.9	1435.4	1380.0	1336.4	1323.4	1302.1
10°	1818.8	1819.9	1766.9	1641.8	1489.7	1356.4	1240.8	1155.9	1112.2	1085.1	1073.3
12.5°	1863.6	1861.2	1753.9	1546.3	1343.4	1166.5	1034.4	931.8	891.7	878.7	870.5
15°	1920.2	1907.2	1723.2	1448.4	1154.7	963.6	844.5	773.7	770.2	761.9	770.2
17.5°	1965.0	1928.5	1678.4	1270.3	974.3	793.8	715.9	720.7	730.1	738.4	739.5
20°	2038.1	1962.7	1575.8	1114.6	806.8	680.6	679.4	700.6	724.2	733.6	743.1
22.5°	2093.6	1976.8	1466.1	948.3	669.9	634.6	654.6	686.5	704.1	713.6	727.7
25°	2113.6	1937.9	1319.8	782.0	603.9	613.3	644.0	665.2	687.6	698.3	692.4
27.5°	2133.7	1917.8	1145.3	644.0	568.5	599.2	625.1	646.4	653.4	667.6	677.0
30°	2182.0	1848.2	988.4	556.7	550.8	589.7	608.6	615.7	634.6	642.8	642.8
32.5°	2221.0	1821.1	822.1	515.4	548.5	594.5	596.8	596.8	599.2	593.3	590.9
35°	2301.2	1727.9	673.5	490.7	547.3	595.6	601.5	581.5	527.2	506.0	500.1
37.5°	2400.2	1667.8	563.8	484.8	555.5	609.8	619.2	543.7	473.0	438.8	432.9
40°	2520.5	1625.3	491.8	482.4	574.4	642.8	614.5	514.3	422.3	372.7	370.4
42.5°	2660.9	1586.4	443.5	481.2	598.0	677.0	609.8	489.5	370.4	337.3	342.0
45°	2773.0	1565.2	410.5	473.0	606.3	697.1	613.3	445.8	349.1	327.9	330.3
47.5°	2860.2	1520.4	383.3	458.8	605.1	704.1	581.5	428.2	338.5	344.4	350.3
50°	2862.6	1460.2	349.1	428.2	587.4	691.2	544.9	411.6	336.2	360.9	372.7
52.5°	2830.8	1375.3	312.6	384.5	546.1	646.4	511.9	404.6	325.5	323.2	337.3
55°	2717.5	1216.0	251.2	311.4	461.2	533.1	482.4	391.6	293.7	266.6	268.9
57.5°	2196.2	871.6	185.2	222.9	326.7	390.4	435.2	385.7	264.2	226.5	227.6
60°	1359.9	494.2	135.6	152.2	201.7	237.1	352.7	358.6	235.9	191.1	188.7
62.5°	698.3	244.2	105.0	107.3	123.8	139.2	241.8	300.8	213.5	181.6	181.6
65°	233.5	120.3	92.0	82.6	82.6	86.1	146.3	208.8	180.5	152.2	152.2
67.5°	100.3	89.6	80.2	71.9	66.1	62.5	82.6	121.5	134.5	115.6	110.9
70°	77.8	75.5	69.6	60.2	51.9	47.2	48.4	62.5	76.7	74.3	71.9
72.5°	57.8	57.8	55.4	47.2	40.1	34.2	31.8	33.0	36.6	37.7	38.9
75°	40.1	41.3	41.3	36.6	29.5	24.8	21.2	17.7	14.2	11.8	10.6
77.5°	27.1	28.3	30.7	27.1	22.4	16.5	13.0	9.4	5.9	2.4	2.4
80°	23.6	27.1	29.5	27.1	23.6	17.7	13.0	7.1	3.5	0.0	0.0
82.5°	24.8	27.1	30.7	25.9	22.4	16.5	13.0	8.3	3.5	1.2	0.0
85°	5.9	5.9	7.1	8.3	10.6	11.8	9.4	5.9	3.5	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)