

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: P527879

Luminaire Tested: **GALN-SA2D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527879
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-SA2D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 7382 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 125
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



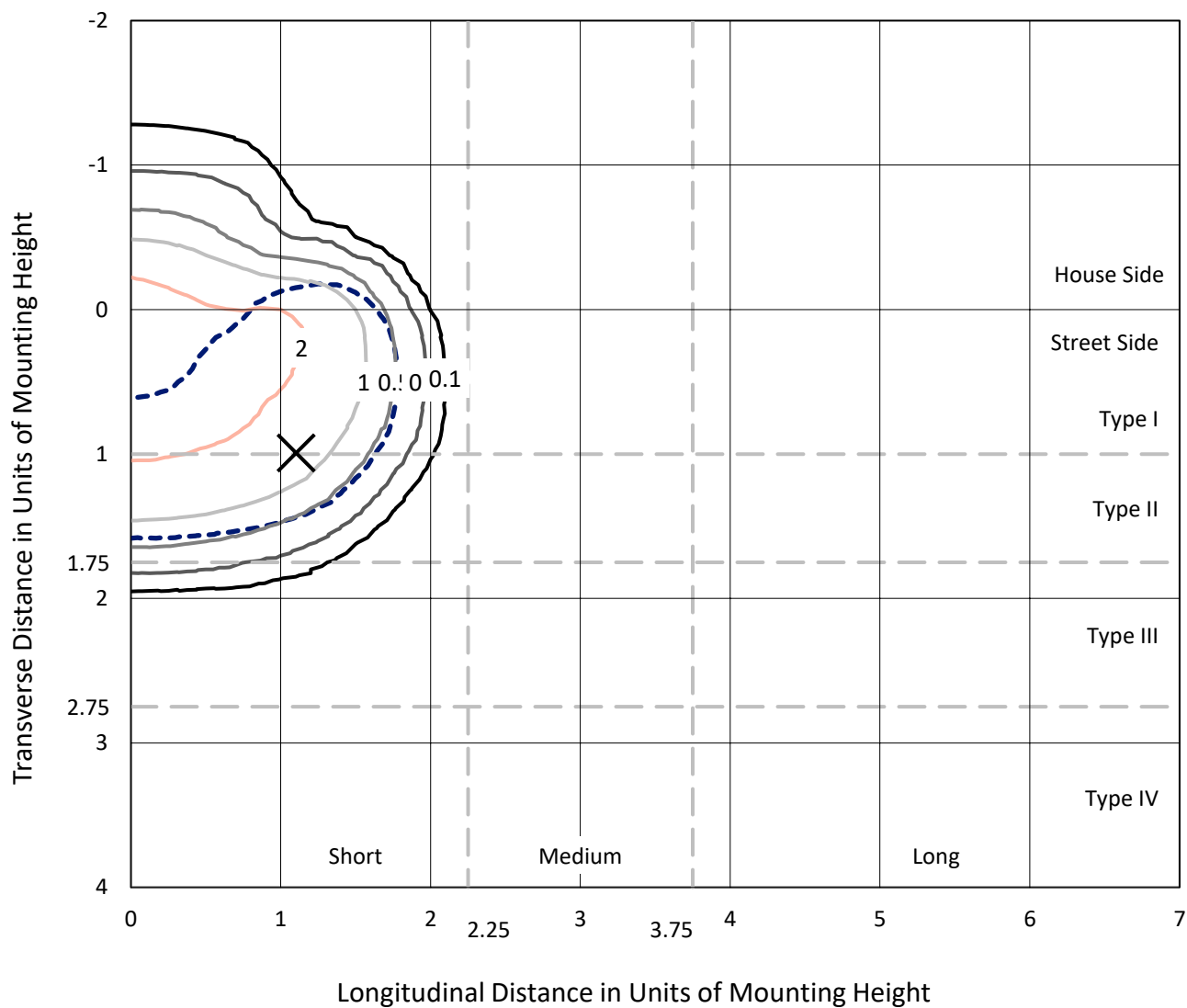
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

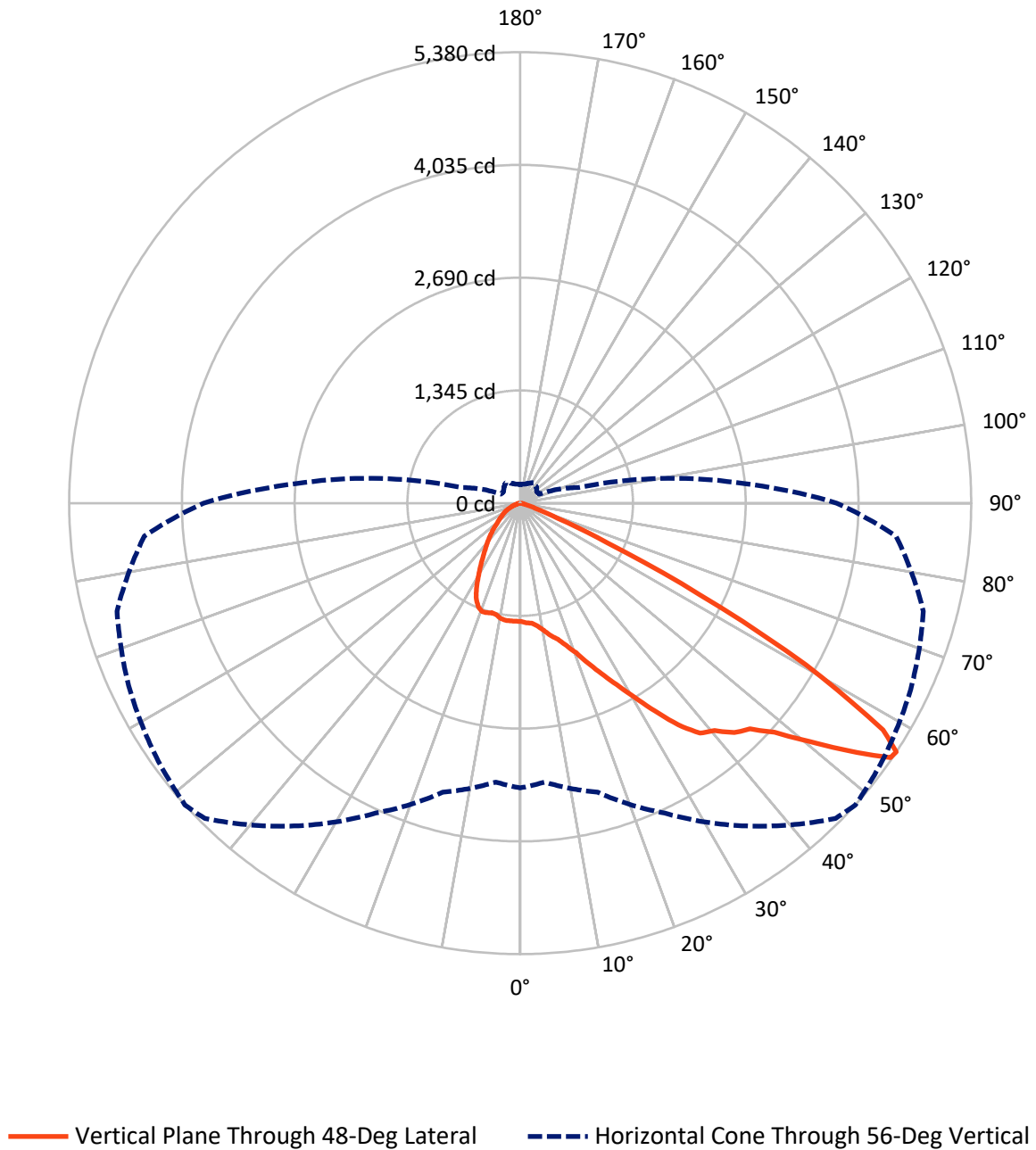
--- 1/2 Max cd



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	1605.4	0.0	1605.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5776.5	0.0	5776.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	7382.0	0.0	7382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.9
10°-20°	438.9	5.9
20°-30°	796.1	10.8
30°-40°	1250.6	16.9
40°-50°	1824.4	24.7
50°-60°	2198.0	29.8
60°-70°	643.6	8.7
70°-80°	81.6	1.1
80°-90°	11.4	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°	7382.0	100.0
0°-180°	7382.0	100.0

Coefficient of Utilization



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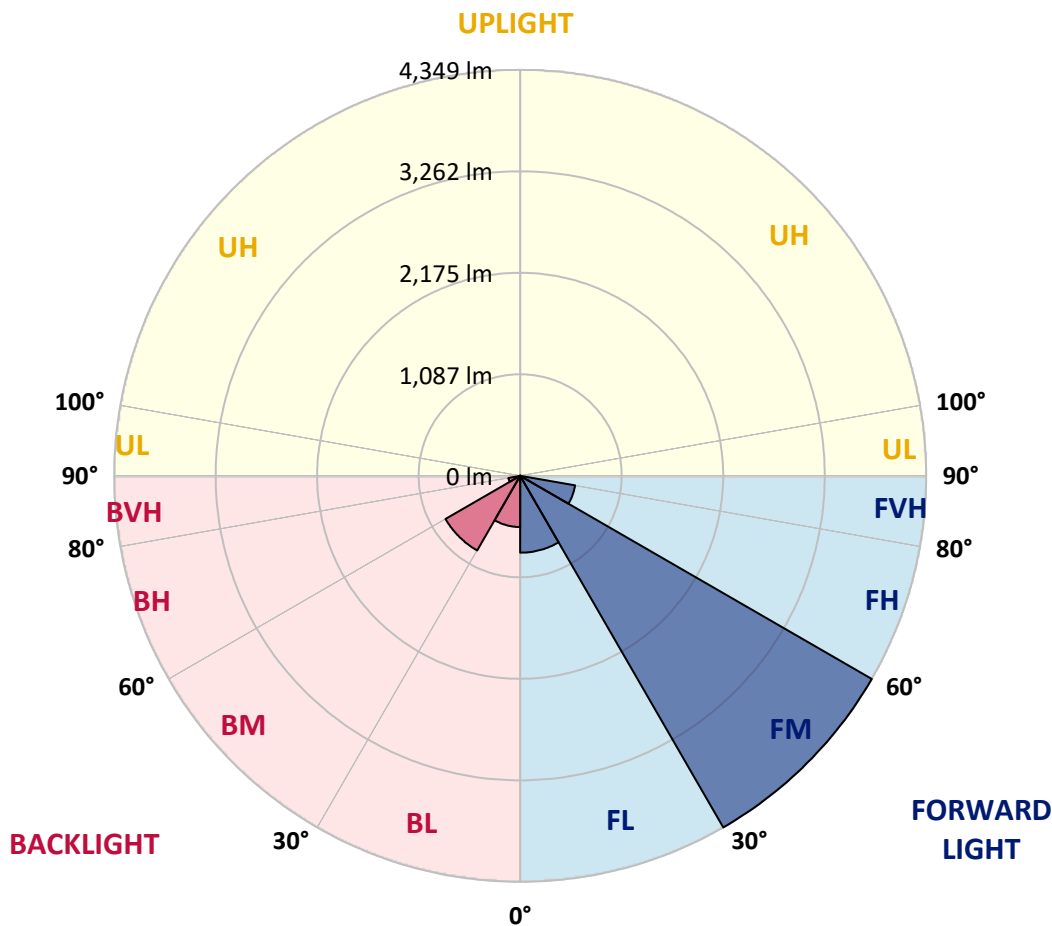
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.7	11.2			
FM	(30°-60°)	4349.5	58.9			
FH	(60°-80°)	597.6	8.1			G0/660
FVH	(80°-90°)	5.7	0.1			G0/10
BL	(0°-30°)	548.7	7.4	B2/1000		
BM	(30°-60°)	923.4	12.5	B1/1000		
BH	(60°-80°)	127.6	1.7	B1/500		G1/500
BVH	(80°-90°)	5.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
2.5°	1435.5	1428.8	1428.8	1418.0	1430.1	1424.8	1428.8	1415.3	1428.8	1408.6	1424.8
5°	1442.2	1443.6	1438.2	1444.9	1444.9	1453.0	1439.5	1451.6	1458.4	1443.6	1436.8
7.5°	1477.2	1479.9	1478.5	1473.1	1483.9	1482.5	1481.2	1471.8	1474.5	1469.1	1461.0
10°	1545.7	1544.4	1551.1	1537.7	1529.6	1539.0	1541.7	1526.9	1516.1	1512.1	1486.6
12.5°	1645.2	1629.1	1619.6	1606.2	1610.2	1596.8	1621.0	1595.5	1590.1	1565.9	1540.3
15°	1725.8	1723.1	1724.5	1703.0	1678.8	1684.2	1684.2	1670.7	1662.7	1633.1	1596.8
17.5°	1891.2	1834.7	1846.8	1819.9	1799.8	1798.4	1786.3	1789.0	1767.5	1705.7	1650.6
20°	2020.2	1996.0	1977.2	1931.5	1900.6	1910.0	1904.6	1891.2	1884.4	1803.8	1725.8
22.5°	2135.8	2143.8	2112.9	2100.8	2057.8	2061.9	2072.6	2060.5	2009.4	1926.1	1810.5
25°	2298.4	2289.0	2247.3	2232.6	2192.2	2207.0	2248.7	2239.3	2207.0	2056.5	1876.4
27.5°	2490.6	2458.4	2466.4	2399.2	2360.2	2401.9	2451.6	2498.7	2407.3	2209.7	1954.3
30°	2626.4	2592.8	2590.1	2587.4	2578.0	2626.4	2684.2	2727.2	2653.3	2362.9	2083.4
32.5°	2693.6	2701.6	2724.5	2716.4	2798.4	2897.9	2958.4	3020.2	2927.5	2612.9	2254.1
35°	2872.4	2821.3	2872.4	2877.7	2962.4	3173.4	3250.0	3397.9	3375.0	2966.4	2462.4
37.5°	2977.2	2973.2	2979.9	3031.0	3112.9	3373.7	3482.6	3596.8	3553.8	3178.8	2721.8
40°	3150.6	3161.3	3160.0	3199.0	3289.0	3524.2	3568.6	3661.3	3665.4	3473.2	3103.5
42.5°	3428.8	3385.8	3357.6	3397.9	3524.2	3654.6	3743.3	3724.5	3857.6	3830.7	3594.1
45°	3678.8	3704.4	3662.7	3729.9	3775.6	3845.5	3842.8	3883.1	4052.5	4180.2	3963.8
47.5°	3912.7	3928.8	3949.0	3994.7	4094.1	4104.9	4082.0	4064.6	4298.4	4430.2	4250.1
50°	4052.5	4067.3	4161.3	4243.3	4428.8	4453.0	4466.5	4422.1	4580.7	4595.5	4520.2
52.5°	4014.8	4031.0	4162.7	4432.9	4728.6	4950.3	4910.0	4834.7	4825.3	4883.1	4770.2
55°	3681.5	3666.7	3848.2	4268.9	4822.6	5354.9	5360.3	5281.0	5129.1	5090.1	4732.6
56°	3397.9	3340.1	3571.3	4079.4	4701.7	5320.0	5380.4	5295.8	5153.3	4978.6	4500.1
57.5°	2783.6	2838.7	3068.6	3489.3	4283.7	5068.6	5103.6	5083.4	4975.9	4682.9	3959.7
60°	1535.0	1631.7	1834.7	2349.5	3049.8	3889.8	3918.1	4082.0	4102.2	3586.1	2724.5
62.5°	651.9	641.1	852.2	1231.2	1736.6	2348.1	2400.6	2568.6	2599.5	2067.2	1367.0
65°	264.8	279.6	385.8	619.6	918.0	1069.9	1143.8	1198.9	1301.1	853.5	504.0
67.5°	174.7	173.4	227.2	353.5	494.6	477.2	477.2	504.0	466.4	348.1	217.7
70°	125.0	129.0	162.6	244.6	307.8	228.5	219.1	209.7	237.9	229.8	176.1
72.5°	82.0	87.4	108.9	146.5	159.9	125.0	125.0	150.5	196.2	185.5	143.8
75°	53.8	55.1	67.2	84.7	79.3	64.5	71.2	100.8	142.5	137.1	102.2
77.5°	36.3	37.6	45.7	55.1	44.4	36.3	39.0	51.1	69.9	69.9	53.8
80°	13.4	14.8	18.8	17.5	20.2	25.5	28.2	34.9	41.7	41.7	36.3
82.5°	0.0	1.3	4.0	9.4	14.8	20.2	22.8	26.9	30.9	34.9	33.6
85°	0.0	1.3	4.0	6.7	10.8	12.1	13.4	9.4	8.1	8.1	6.7
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.7	1.3	1.3
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°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
2.5°	1410.0	1408.6	1408.6	1404.6	1412.7	1408.6	1411.3	1410.0	1392.5	1405.9	1396.5
5°	1424.8	1434.2	1419.4	1416.7	1405.9	1410.0	1410.0	1396.5	1408.6	1407.3	1404.6
7.5°	1462.4	1446.3	1430.1	1414.0	1411.3	1407.3	1392.5	1387.1	1396.5	1385.8	1401.9
10°	1478.5	1481.2	1457.0	1435.5	1415.3	1387.1	1367.0	1354.9	1340.1	1356.2	1365.6
12.5°	1552.4	1525.6	1483.9	1450.3	1381.7	1353.5	1333.4	1328.0	1353.5	1358.9	1349.5
15°	1578.0	1573.9	1520.2	1444.9	1373.7	1340.1	1344.1	1333.4	1336.0	1322.6	1325.3
17.5°	1630.4	1584.7	1521.5	1427.4	1372.3	1364.3	1340.1	1297.1	1272.9	1262.1	1271.5
20°	1688.2	1643.8	1552.4	1434.2	1384.4	1362.9	1283.6	1231.2	1181.5	1154.6	1155.9
22.5°	1739.3	1684.2	1539.0	1436.8	1395.2	1306.5	1211.0	1107.5	1045.7	1004.0	1005.4
25°	1801.1	1723.1	1544.4	1442.2	1367.0	1216.4	1079.3	978.5	904.6	876.4	885.8
27.5°	1836.0	1747.3	1573.9	1454.3	1293.0	1088.7	940.9	846.8	803.8	790.3	789.0
30°	1940.9	1801.1	1610.2	1430.1	1169.4	951.6	814.5	756.7	715.1	703.0	705.7
32.5°	2096.8	1899.2	1657.3	1367.0	1043.0	829.3	732.5	689.5	650.5	627.7	625.0
35°	2227.2	2067.2	1707.0	1268.8	896.5	735.2	674.7	621.0	561.8	536.3	529.6
37.5°	2475.8	2256.8	1696.3	1121.0	756.7	665.3	612.9	547.1	496.0	461.0	457.0
40°	2806.5	2478.5	1643.8	940.9	653.2	603.5	547.1	483.9	420.7	391.1	388.4
42.5°	3208.4	2750.0	1548.4	758.1	549.7	541.7	490.6	418.0	361.6	340.1	341.4
45°	3535.0	2982.6	1451.6	608.9	473.1	481.2	436.8	368.3	329.3	311.8	311.8
47.5°	3825.3	3139.8	1346.8	502.7	401.9	420.7	381.7	341.4	307.8	294.4	291.7
50°	4104.9	3299.8	1242.0	407.3	342.7	361.6	357.5	325.3	298.4	282.3	283.6
52.5°	4279.6	3325.3	1108.9	333.3	299.7	321.2	334.7	305.1	275.5	266.1	263.4
55°	4065.9	2996.0	860.2	274.2	254.0	282.3	307.8	274.2	251.3	235.2	233.9
56°	3778.3	2678.8	719.1	252.7	240.6	271.5	298.4	262.1	236.6	227.2	220.4
57.5°	3199.0	2192.2	530.9	224.5	223.1	252.7	283.6	250.0	220.4	212.4	212.4
60°	1994.7	1233.9	321.2	188.2	193.6	224.5	255.4	223.1	196.2	196.2	200.3
62.5°	908.6	513.4	194.9	159.9	166.7	193.6	227.2	201.6	186.8	201.6	204.3
65°	309.1	221.8	141.1	127.7	131.7	159.9	194.9	204.3	203.0	212.4	217.7
67.5°	173.4	142.5	118.3	106.2	103.5	118.3	159.9	204.3	196.2	192.2	194.9
70°	146.5	121.0	104.8	94.1	90.1	95.4	123.7	154.6	138.4	134.4	131.7
72.5°	118.3	100.8	91.4	84.7	72.6	61.8	56.5	59.1	65.9	69.9	76.6
75°	83.3	76.6	76.6	68.5	52.4	39.0	30.9	25.5	17.5	12.1	13.4
77.5°	47.0	47.0	48.4	41.7	33.6	25.5	18.8	13.4	6.7	2.7	1.3
80°	32.3	34.9	37.6	33.6	28.2	22.8	16.1	9.4	4.0	0.0	0.0
82.5°	32.3	36.3	39.0	33.6	28.2	21.5	16.1	9.4	4.0	1.3	0.0
85°	6.7	8.1	9.4	10.8	16.1	16.1	12.1	8.1	4.0	1.3	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)