

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: P194040

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11147 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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: 25 FT

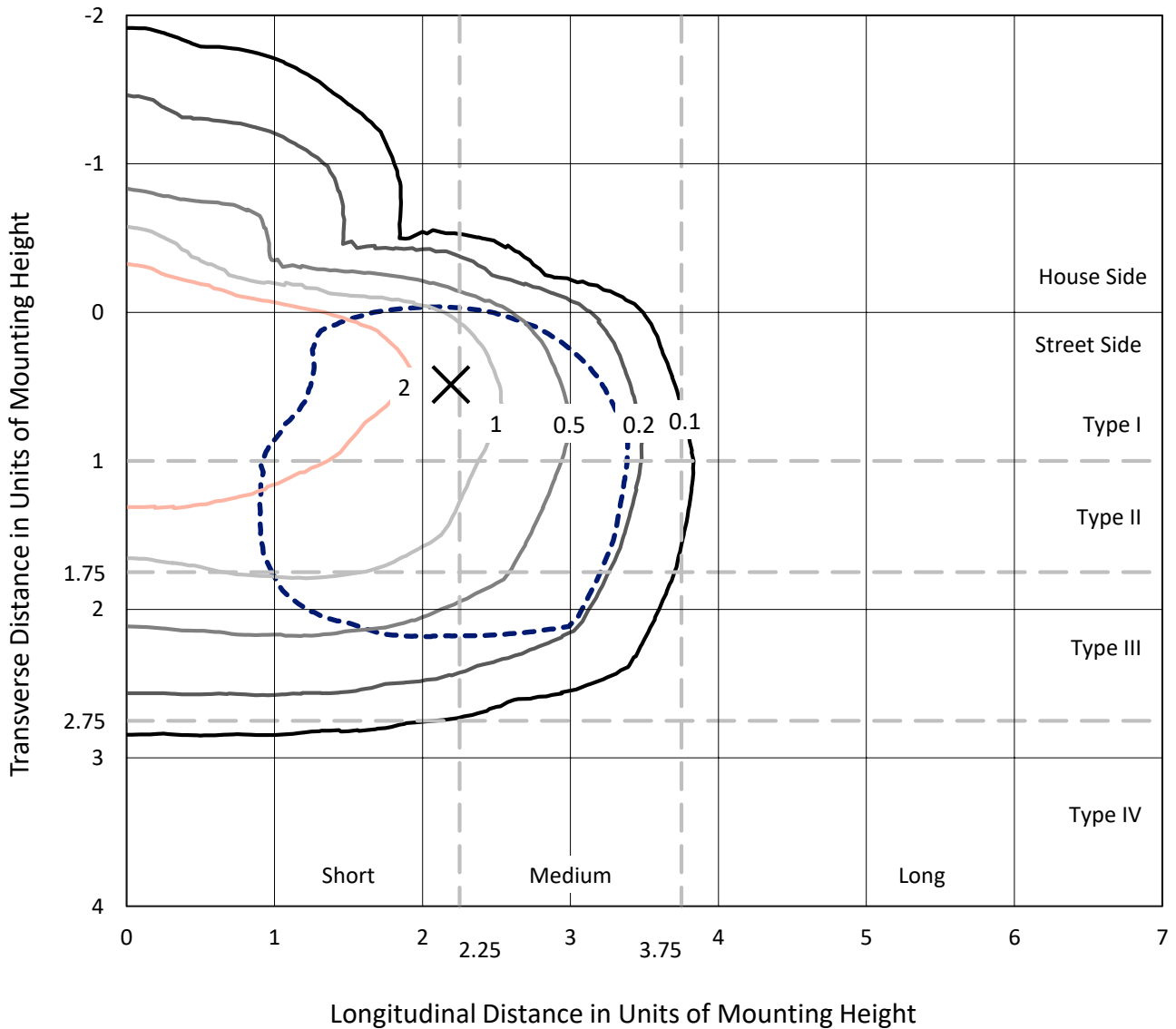


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Iso-Footcandle Lines of Horizontal Illumination

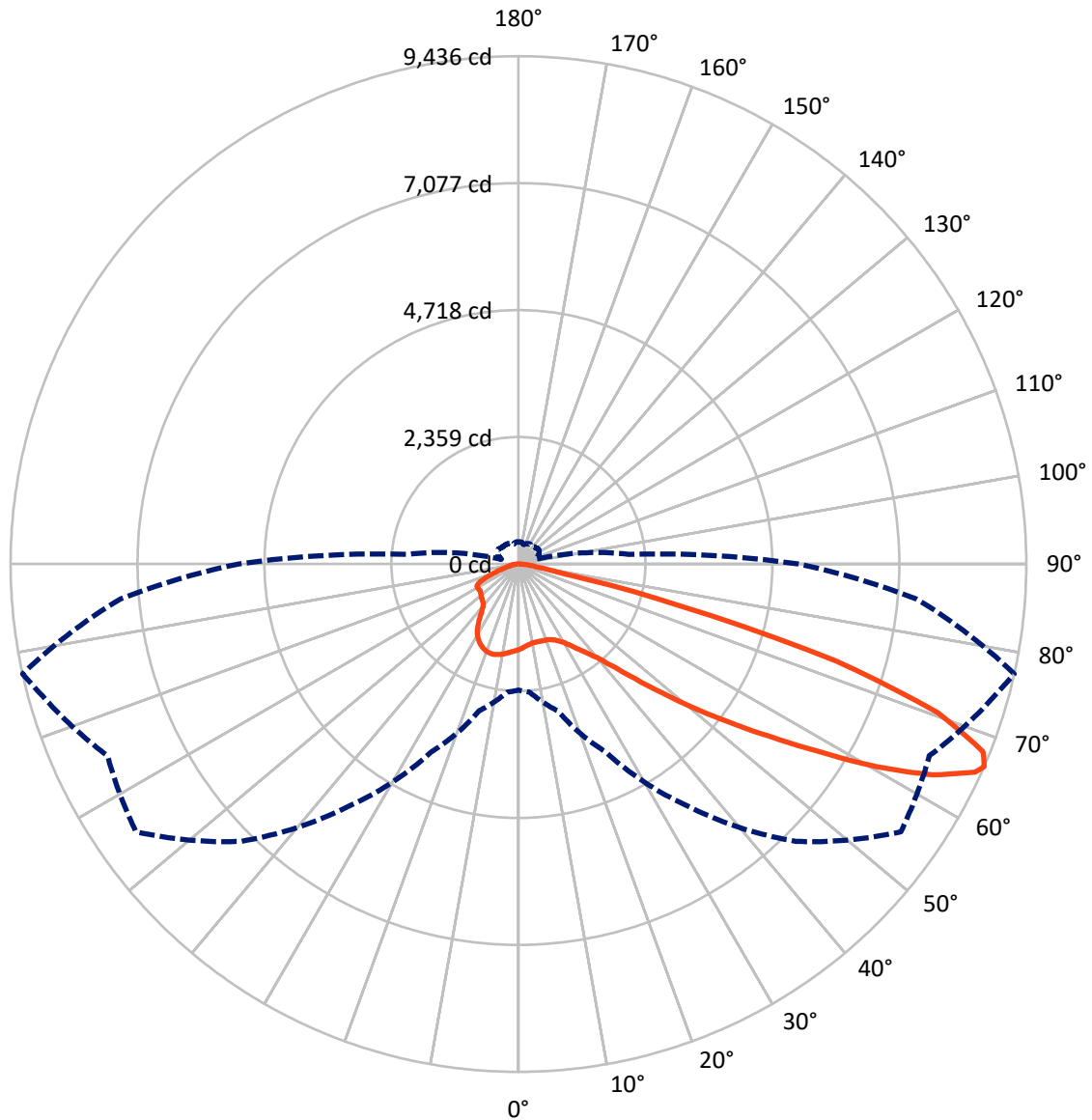
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.4	0.0	1904.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9242.6	0.0	9242.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	11147.0	0.0	11147.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.3
10°-20°	400.4	3.6
20°-30°	683.3	6.1
30°-40°	1093.8	9.8
40°-50°	1689.9	15.2
50°-60°	2396.9	21.5
60°-70°	3206.3	28.8
70°-80°	1392.5	12.5
80°-90°	142.0	1.3
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°	11147.0	100.0
0°-180°	11147.0	100.0



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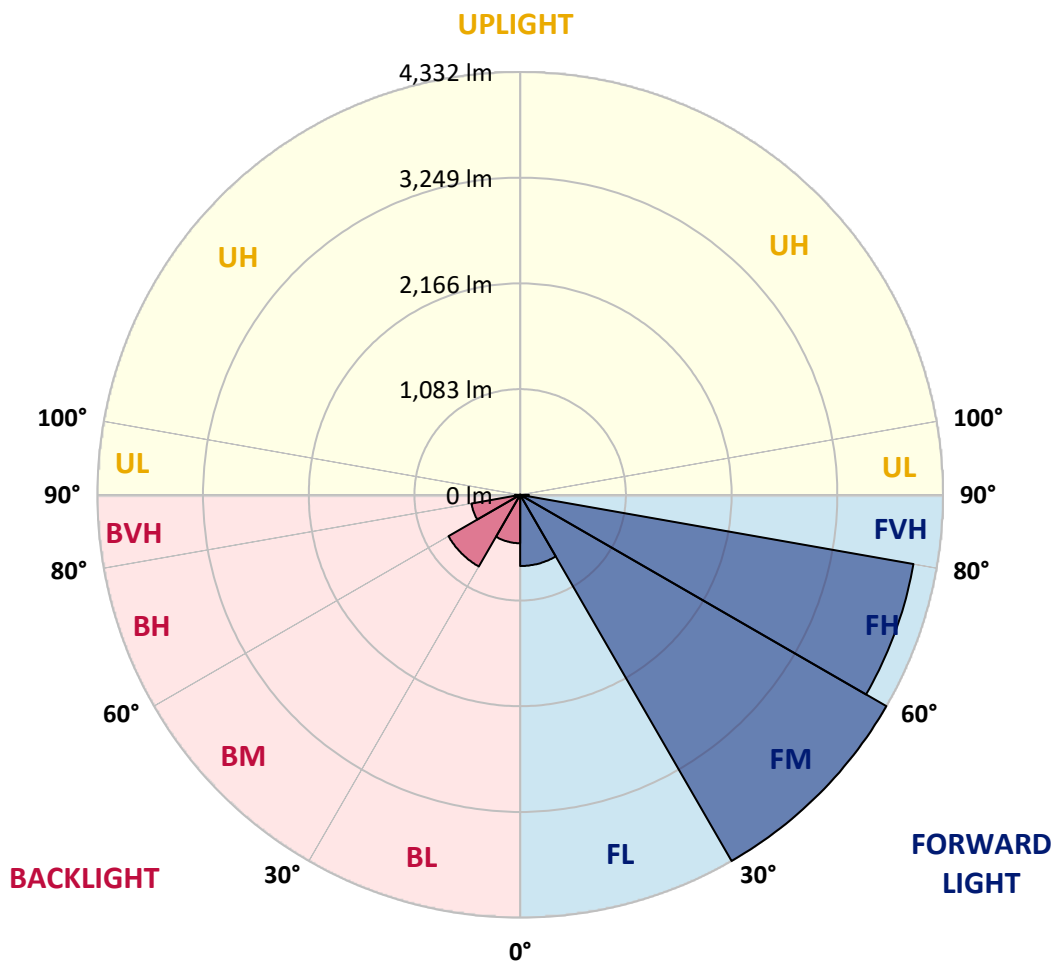
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.6	6.5			
FM	(30°-60°)	4332.3	38.9			
FH	(60°-80°)	4091.6	36.7			G2/5000
FVH	(80°-90°)	89.1	0.8			G1/100
BL	(0°-30°)	496.0	4.4	B1/500		
BM	(30°-60°)	848.3	7.6	B1/1000		
BH	(60°-80°)	507.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	52.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1405.2	1414.7	1422.6	1430.0	1444.7	1468.9	1496.9	1519.5	1552.2	1558.5	1575.9
5°	1276.2	1276.2	1282.5	1293.6	1313.6	1349.9	1387.8	1438.4	1509.5	1526.4	1572.7
7.5°	1213.5	1214.0	1217.7	1227.2	1244.6	1277.8	1319.4	1378.9	1475.3	1503.2	1582.2
10°	1236.7	1231.4	1223.5	1218.8	1221.4	1240.9	1280.4	1346.7	1454.2	1490.0	1603.2
12.5°	1366.2	1356.2	1328.8	1292.5	1257.7	1243.5	1266.7	1331.5	1445.2	1486.8	1631.2
15°	1578.0	1573.8	1522.7	1447.3	1363.1	1292.5	1276.7	1325.7	1446.3	1490.5	1664.3
17.5°	1843.4	1837.6	1770.2	1660.7	1523.2	1385.7	1312.0	1330.4	1450.0	1496.9	1696.5
20°	2111.5	2093.6	2020.9	1890.3	1713.9	1512.7	1370.5	1342.5	1454.7	1503.7	1730.2
22.5°	2311.6	2296.9	2231.6	2104.7	1901.4	1659.6	1448.9	1363.6	1470.0	1523.7	1771.8
25°	2487.6	2488.6	2423.8	2301.1	2091.0	1815.5	1550.1	1420.0	1509.0	1564.8	1828.7
27.5°	2705.1	2692.4	2631.9	2510.2	2278.5	1973.0	1672.2	1497.4	1566.9	1623.3	1903.5
30°	2965.3	2956.3	2886.3	2748.3	2486.5	2142.1	1811.8	1587.4	1641.7	1700.2	2001.4
32.5°	3271.3	3267.1	3194.4	3016.9	2726.7	2341.1	1975.6	1706.5	1753.4	1813.9	2142.1
35°	3630.5	3631.0	3545.2	3331.8	2989.5	2572.9	2161.5	1859.7	1889.2	1952.4	2309.5
37.5°	3851.7	3878.6	3846.4	3628.9	3287.1	2832.0	2402.8	2063.0	2044.1	2107.8	2489.1
40°	3899.1	3931.7	4033.4	3922.8	3619.9	3117.5	2616.6	2258.5	2234.8	2312.7	2720.4
42.5°	3832.7	3878.0	4092.9	4170.9	3973.4	3469.3	2904.2	2548.7	2518.6	2623.4	3007.9
45°	3793.2	3826.9	4075.5	4299.9	4279.9	3867.0	3270.2	2913.1	2902.1	3039.5	3339.7
47.5°	3724.8	3755.3	3994.4	4329.9	4460.0	4231.4	3710.0	3358.7	3380.3	3560.4	3714.2
50°	3761.6	3774.3	3903.8	4253.6	4512.2	4498.5	4201.4	3874.9	3948.6	4173.5	4138.2
52.5°	3756.4	3789.0	3893.3	4128.2	4519.0	4663.3	4685.4	4450.5	4605.9	4864.0	4608.5
55°	3036.9	3096.9	3769.5	4096.6	4543.2	4825.0	5116.3	5057.3	5347.0	5647.7	5139.5
57.5°	2900.0	2937.9	3310.8	4163.0	4671.8	5133.7	5595.6	5725.1	6209.7	6558.9	5786.2
60°	2873.1	2920.0	3306.0	4244.1	4932.5	5636.6	6306.1	6533.6	7259.4	7641.8	6536.2
62.5°	2789.4	2839.9	3275.0	4233.5	5302.7	6332.4	7215.7	7393.2	8254.8	8626.7	7163.5
65°	2523.9	2571.3	3021.6	4063.4	5552.4	7075.0	8292.2	8181.1	9040.7	9320.3	7476.4
66°	2342.2	2388.5	2822.0	3863.3	5494.4	7285.7	8673.5	8425.0	9216.6	9435.7	7415.3
67.5°	2009.9	2046.2	2434.4	3415.1	5186.3	7344.7	8994.3	8608.2	9235.0	9312.4	7066.1
70°	1269.9	1280.4	1582.2	2357.5	3926.0	6369.8	8506.1	8153.2	8473.4	8263.8	5923.7
72.5°	550.9	547.2	759.5	1199.3	2222.6	4274.1	6880.7	6727.4	6646.8	6168.6	4146.6
75°	306.5	310.7	394.5	556.7	903.3	2099.4	4501.1	4307.3	3636.8	3103.3	1880.3
77.5°	246.0	251.8	327.1	395.0	405.6	732.1	2106.2	1713.9	1031.8	828.0	522.5
80°	194.3	204.9	285.5	307.6	273.4	301.8	680.5	544.1	408.2	374.5	270.7
82.5°	153.8	161.2	244.9	232.8	191.2	203.3	326.0	317.6	265.5	241.8	156.4
85°	110.6	124.3	201.2	175.4	125.4	136.9	216.5	207.5	152.2	124.3	69.0
87.5°	45.3	59.0	142.2	116.4	70.0	63.7	108.0	101.7	72.2	52.7	34.2
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°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1586.9	1599.6	1615.9	1625.9	1631.2	1634.8	1640.6	1640.1	1641.7	1642.2	1644.3
5°	1597.5	1618.5	1642.2	1648.5	1648.5	1642.7	1637.0	1627.5	1623.8	1622.7	1623.8
7.5°	1624.8	1648.0	1668.6	1661.2	1645.4	1622.2	1592.2	1565.9	1551.6	1546.9	1545.8
10°	1659.6	1687.5	1695.9	1668.0	1621.7	1565.9	1506.3	1463.1	1438.4	1431.5	1429.4
12.5°	1701.7	1728.1	1716.5	1657.5	1571.6	1481.6	1399.4	1330.4	1278.8	1262.5	1261.4
15°	1748.1	1768.6	1728.1	1624.8	1496.9	1364.1	1217.7	1098.7	1034.4	1013.9	1012.3
17.5°	1791.3	1801.8	1721.2	1568.0	1386.8	1171.9	977.5	885.9	863.8	869.0	870.1
20°	1828.1	1828.1	1698.1	1486.3	1213.5	918.5	795.8	794.3	810.1	825.9	829.0
22.5°	1868.7	1844.5	1657.5	1371.0	968.1	751.6	733.7	748.4	766.3	783.7	786.3
25°	1918.7	1857.6	1601.1	1196.1	761.1	682.6	689.4	701.6	710.5	721.6	723.1
27.5°	1974.6	1874.5	1526.9	955.4	660.5	639.4	644.7	648.9	647.8	652.0	653.1
30°	2041.5	1894.0	1425.2	746.8	618.9	602.5	593.1	589.4	589.4	596.2	598.8
32.5°	2131.0	1922.9	1279.3	639.9	598.8	576.2	545.7	532.0	537.2	560.4	565.7
35°	2229.5	1954.0	1081.8	603.6	594.6	564.1	516.7	491.4	491.9	513.5	520.4
37.5°	2336.9	1993.5	865.4	596.7	604.1	564.6	501.4	466.6	452.4	452.4	455.1
40°	2474.4	2034.1	700.5	601.5	624.1	570.9	493.5	447.2	407.1	408.2	410.3
42.5°	2653.5	2068.8	612.0	611.5	648.4	579.4	493.0	421.4	386.6	410.3	431.9
45°	2852.6	2086.2	573.0	620.4	667.8	584.6	484.6	417.1	389.2	459.8	500.9
47.5°	3081.7	2076.2	551.4	623.6	672.6	584.6	475.1	427.1	407.7	532.5	580.4
50°	3332.9	2047.2	530.4	617.3	671.0	583.6	484.0	437.2	414.5	545.1	578.3
52.5°	3628.4	2023.0	508.3	603.6	659.9	577.8	494.6	432.9	392.9	495.6	518.8
55°	3965.5	2029.9	483.5	584.1	642.6	566.7	490.9	416.1	370.3	436.6	450.8
57.5°	4396.3	2111.5	454.0	559.3	618.9	548.3	477.7	408.2	363.4	396.1	404.5
60°	4877.2	2253.7	417.1	534.6	589.4	518.8	467.7	411.9	366.6	392.9	397.1
62.5°	5230.0	2336.4	385.5	498.2	549.3	486.1	455.1	416.6	375.0	404.0	402.9
65°	5325.9	2200.5	346.0	445.1	495.1	451.9	439.3	421.9	378.7	412.9	408.2
66°	5191.6	2054.1	328.7	420.3	467.7	435.0	431.4	421.4	377.1	414.0	406.1
67.5°	4865.6	1753.9	298.6	384.0	424.0	409.8	418.7	416.6	372.9	412.9	401.9
70°	3968.1	1196.6	255.4	319.7	352.9	360.8	394.5	399.8	359.2	394.5	370.3
72.5°	2772.5	728.9	226.0	248.1	285.5	307.6	361.3	376.6	340.8	344.5	321.3
75°	1339.9	387.1	204.9	192.2	221.7	257.0	321.3	345.0	311.8	288.1	279.7
77.5°	417.7	236.5	173.8	154.8	173.8	207.5	268.6	302.3	277.6	241.2	238.1
80°	224.4	173.8	133.8	124.3	137.5	162.7	211.2	252.3	238.6	216.5	193.3
82.5°	148.0	112.7	99.0	96.4	104.8	124.3	157.0	209.1	209.1	185.4	134.8
85°	76.4	69.0	67.9	67.9	73.2	82.7	106.9	161.2	171.7	98.0	81.1
87.5°	37.9	39.5	36.9	38.4	41.1	40.6	51.1	81.1	96.9	59.5	49.5
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)