

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: P269109

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269109
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10818.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

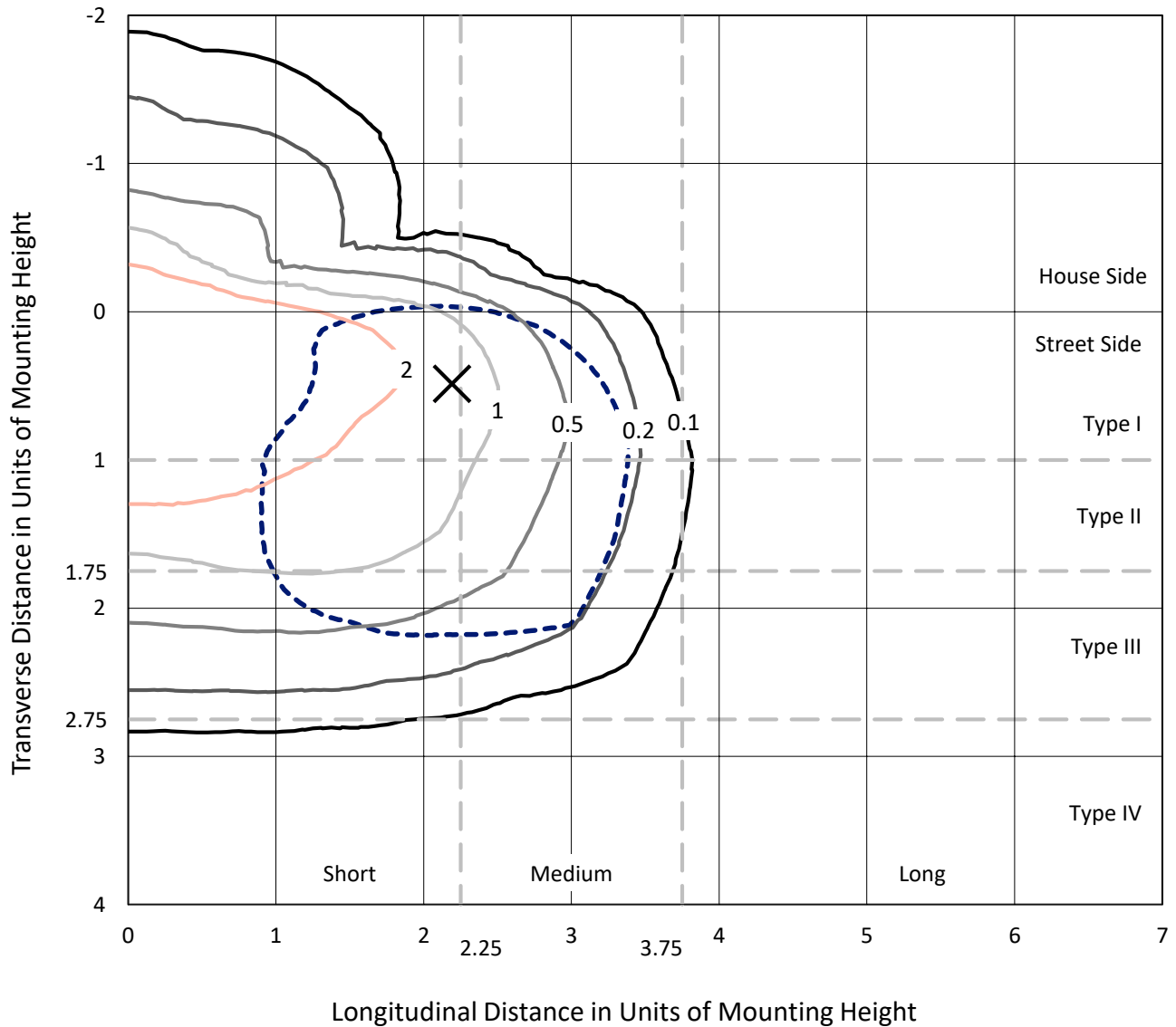
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

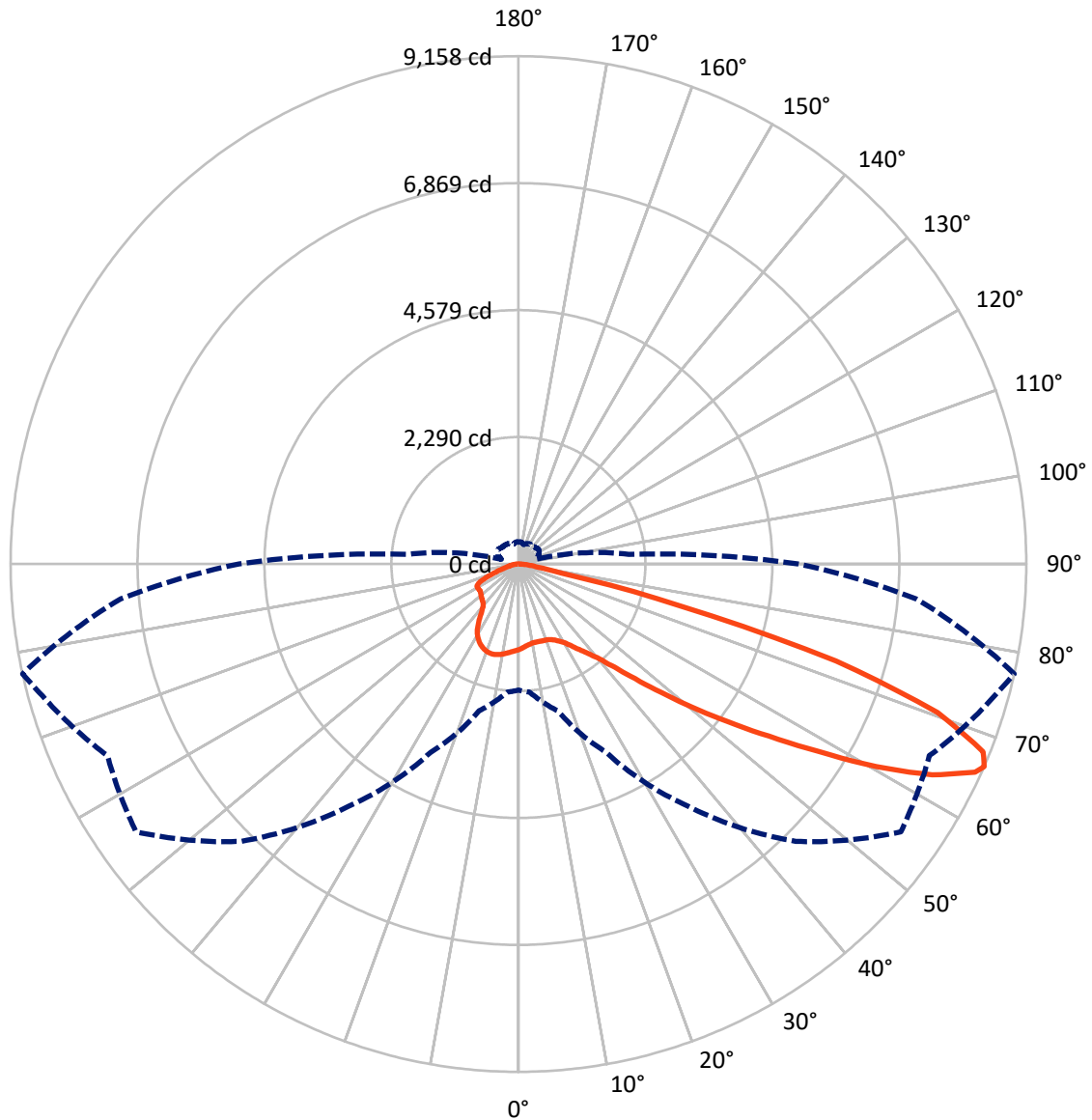
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	1848.3	0.0	1848.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8970.5	0.0	8970.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	10818.8	0.0	10818.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.3
10°-20°	388.6	3.6
20°-30°	663.2	6.1
30°-40°	1061.6	9.8
40°-50°	1640.2	15.2
50°-60°	2326.3	21.5
60°-70°	3112.0	28.8
70°-80°	1351.5	12.5
80°-90°	137.8	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°	10818.8	100.0
0°-180°	10818.8	100.0



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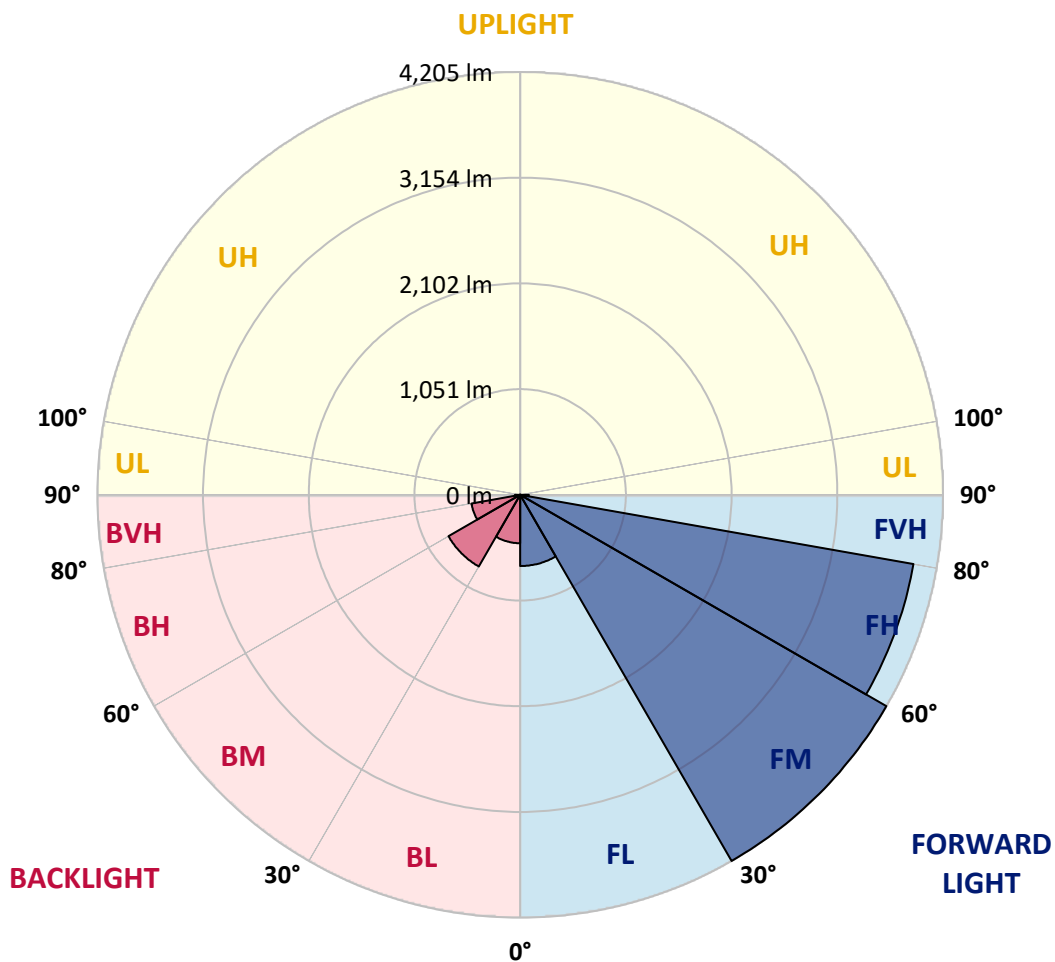
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.1	6.5			
FM	(30°-60°)	4204.8	38.9			
FH	(60°-80°)	3971.2	36.7			G2/5000
FVH	(80°-90°)	86.4	0.8			G1/100
BL	(0°-30°)	481.4	4.4	B1/500		
BM	(30°-60°)	823.3	7.6	B1/1000		
BH	(60°-80°)	492.2	4.5	B1/500		G1/500
BVH	(80°-90°)	51.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-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°	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1363.8	1373.1	1380.8	1387.9	1402.2	1425.7	1452.7	1474.7	1506.5	1512.6	1529.5
5°	1238.7	1238.7	1244.7	1255.6	1275.0	1310.2	1347.0	1396.1	1465.0	1481.5	1526.4
7.5°	1177.8	1178.2	1181.9	1191.1	1208.0	1240.1	1280.5	1338.3	1431.9	1458.9	1535.7
10°	1200.2	1195.1	1187.5	1182.9	1185.5	1204.4	1242.6	1307.2	1411.3	1446.1	1556.0
12.5°	1326.0	1316.2	1289.7	1254.5	1220.6	1207.0	1229.4	1292.3	1402.8	1443.0	1583.2
15°	1531.5	1527.4	1477.8	1404.7	1322.9	1254.5	1239.1	1286.6	1403.7	1446.7	1615.3
17.5°	1789.2	1783.6	1718.1	1611.7	1478.3	1344.9	1273.3	1291.3	1407.4	1452.7	1646.6
20°	2049.4	2032.0	1961.4	1834.7	1663.4	1468.1	1330.1	1303.0	1411.9	1459.4	1679.2
22.5°	2243.5	2229.2	2166.0	2042.7	1845.4	1610.8	1406.2	1323.5	1426.7	1478.9	1719.6
25°	2414.4	2415.4	2352.5	2233.4	2029.5	1762.0	1504.4	1378.2	1464.5	1518.8	1774.8
27.5°	2625.4	2613.2	2554.4	2436.4	2211.4	1914.8	1623.0	1453.3	1520.8	1575.4	1847.5
30°	2878.0	2869.2	2801.4	2667.3	2413.2	2078.9	1758.5	1540.8	1593.4	1650.0	1942.6
32.5°	3175.0	3170.8	3100.3	2928.0	2646.3	2272.3	1917.4	1656.2	1701.7	1760.5	2078.9
35°	3523.6	3524.1	3440.8	3233.8	2901.4	2497.2	2097.9	1805.1	1833.6	1895.0	2241.5
37.5°	3738.2	3764.3	3733.1	3522.1	3190.3	2748.6	2332.0	2002.3	1983.8	2045.8	2415.9
40°	3784.3	3816.0	3914.6	3807.3	3513.5	3025.8	2539.6	2192.0	2169.0	2244.7	2640.3
42.5°	3719.9	3763.9	3972.5	4048.1	3856.5	3367.1	2818.7	2473.7	2444.5	2546.2	2919.4
45°	3681.6	3714.3	3955.5	4173.3	4153.9	3753.1	3173.9	2827.3	2816.6	2950.0	3241.4
47.5°	3615.0	3644.8	3876.8	4202.5	4328.8	4107.0	3600.8	3259.8	3280.8	3455.6	3604.9
50°	3650.9	3663.2	3789.0	4128.3	4379.3	4366.0	4077.8	3760.8	3832.3	4050.6	4016.4
52.5°	3645.9	3677.5	3778.7	4006.7	4386.0	4526.0	4547.5	4319.5	4470.3	4720.9	4472.9
55°	2947.5	3005.8	3658.5	3976.0	4409.5	4683.0	4965.7	4908.3	5189.6	5481.5	4988.2
57.5°	2814.6	2851.4	3213.3	4040.4	4534.3	4982.5	5430.9	5556.6	6026.9	6365.7	5615.9
60°	2788.5	2834.1	3208.7	4119.2	4787.2	5470.7	6120.4	6341.2	7045.6	7416.9	6343.8
62.5°	2707.2	2756.3	3178.6	4108.8	5146.6	6146.1	7003.2	7175.5	8011.9	8372.7	6952.6
65°	2449.6	2495.6	2932.6	3943.7	5388.9	6866.7	8048.2	7940.3	8774.6	9045.9	7256.2
66°	2273.3	2318.3	2738.9	3749.5	5332.7	7071.3	8418.2	8176.9	8945.2	9158.0	7197.0
67.5°	1950.7	1986.0	2362.7	3314.6	5033.7	7128.5	8729.5	8354.9	8963.2	9038.2	6858.1
70°	1232.5	1242.6	1535.7	2288.1	3810.4	6182.2	8255.7	7913.2	8224.0	8020.5	5749.3
72.5°	534.8	531.1	737.1	1163.9	2157.2	4148.4	6678.2	6529.4	6451.2	5987.1	4024.5
75°	297.5	301.7	382.9	540.3	876.7	2037.5	4368.5	4180.5	3529.7	3011.8	1824.9
77.5°	238.7	244.3	317.5	383.3	393.5	710.6	2044.3	1663.4	1001.4	803.5	507.2
80°	188.6	198.9	277.0	298.5	265.3	292.8	660.4	528.1	396.2	363.5	262.8
82.5°	149.3	156.5	237.7	226.0	185.6	197.3	316.5	308.3	257.6	234.6	151.9
85°	107.3	120.6	195.3	170.1	121.7	132.9	210.2	201.4	147.7	120.6	67.0
87.5°	43.9	57.2	138.0	112.9	68.0	61.9	104.8	98.6	70.1	51.2	33.2
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°	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1540.2	1552.5	1568.4	1578.1	1583.2	1586.8	1592.3	1591.8	1593.4	1594.0	1595.8
5°	1550.5	1570.9	1594.0	1600.1	1600.1	1594.4	1588.7	1579.6	1575.9	1575.0	1575.9
7.5°	1577.1	1599.5	1619.5	1612.3	1596.9	1574.5	1545.4	1519.8	1506.0	1501.3	1500.3
10°	1610.8	1637.8	1646.1	1618.9	1573.9	1519.8	1462.0	1420.1	1396.1	1389.4	1387.3
12.5°	1651.7	1677.2	1665.9	1608.8	1525.4	1437.9	1358.2	1291.3	1241.2	1225.3	1224.3
15°	1696.5	1716.7	1677.2	1577.1	1452.7	1324.0	1181.9	1066.4	1003.9	984.1	982.4
17.5°	1738.6	1748.8	1670.6	1521.8	1346.0	1137.4	948.8	859.8	838.4	843.5	844.4
20°	1774.3	1774.3	1648.1	1442.6	1177.8	891.5	772.5	770.8	786.1	801.6	804.6
22.5°	1813.7	1790.2	1608.8	1330.6	939.5	729.5	712.0	726.4	743.7	760.7	763.2
25°	1862.2	1803.0	1554.0	1160.9	738.6	662.5	669.1	680.8	689.5	700.3	701.8
27.5°	1916.4	1819.2	1481.9	927.3	641.0	620.5	625.7	629.8	628.8	632.9	633.8
30°	1981.3	1838.2	1383.3	724.8	600.6	584.7	575.6	572.0	572.0	578.7	581.3
32.5°	2068.3	1866.4	1241.6	621.1	581.3	559.3	529.6	516.3	521.3	544.0	549.0
35°	2163.8	1896.5	1049.9	585.9	577.2	547.4	501.4	476.9	477.4	498.4	505.0
37.5°	2268.1	1934.8	839.8	579.1	586.4	548.0	486.6	452.9	439.1	439.1	441.6
40°	2401.6	1974.3	679.8	583.8	605.7	554.2	478.9	434.1	395.2	396.2	398.2
42.5°	2575.4	2007.9	594.0	593.5	629.3	562.2	478.4	409.0	375.2	398.2	419.1
45°	2768.5	2024.8	556.2	602.1	648.1	567.4	470.4	404.9	377.7	446.3	486.2
47.5°	2990.9	2015.1	535.2	605.3	652.8	567.4	461.1	414.6	395.7	516.9	563.3
50°	3234.7	1987.1	514.8	599.1	651.2	566.4	469.8	424.3	402.4	529.1	561.4
52.5°	3521.5	1963.4	493.3	585.9	640.5	560.8	480.1	420.1	381.3	481.0	503.5
55°	3848.7	1970.2	469.3	566.9	623.7	550.0	476.5	403.9	359.3	423.8	437.6
57.5°	4266.9	2049.4	440.7	542.8	600.6	532.2	463.6	396.2	352.8	384.5	392.6
60°	4733.6	2187.4	404.9	518.9	572.0	503.5	454.0	399.7	355.8	381.3	385.5
62.5°	5076.1	2267.6	374.1	483.6	533.1	471.8	441.6	404.3	364.0	392.1	391.0
65°	5169.1	2135.7	335.8	431.9	480.6	438.6	426.3	409.4	367.5	400.7	396.2
66°	5038.8	1993.6	319.0	407.9	454.0	422.3	418.7	409.0	366.0	401.8	394.1
67.5°	4722.3	1702.3	289.9	372.6	411.6	397.7	406.5	404.3	361.8	400.7	390.0
70°	3851.3	1161.4	247.9	310.3	342.6	350.2	382.9	388.0	348.6	382.9	359.3
72.5°	2691.0	707.4	219.2	240.7	277.0	298.5	350.7	365.5	330.8	334.3	311.8
75°	1300.4	375.8	198.9	186.6	215.2	249.5	311.8	334.8	302.5	279.6	271.5
77.5°	405.3	229.5	168.7	150.2	168.7	201.4	260.7	293.4	269.4	234.1	231.0
80°	217.7	168.7	129.8	120.6	133.4	157.9	205.1	244.9	231.6	210.2	187.6
82.5°	143.6	109.5	96.1	93.6	101.7	120.6	152.4	202.9	202.9	179.9	130.9
85°	74.1	67.0	65.9	65.9	71.1	80.3	103.8	156.5	166.6	95.1	78.7
87.5°	36.8	38.4	35.8	37.3	39.9	39.3	49.5	78.7	94.1	57.9	48.1
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)