

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: P269190

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269190
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-03-LED-E1-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10636.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

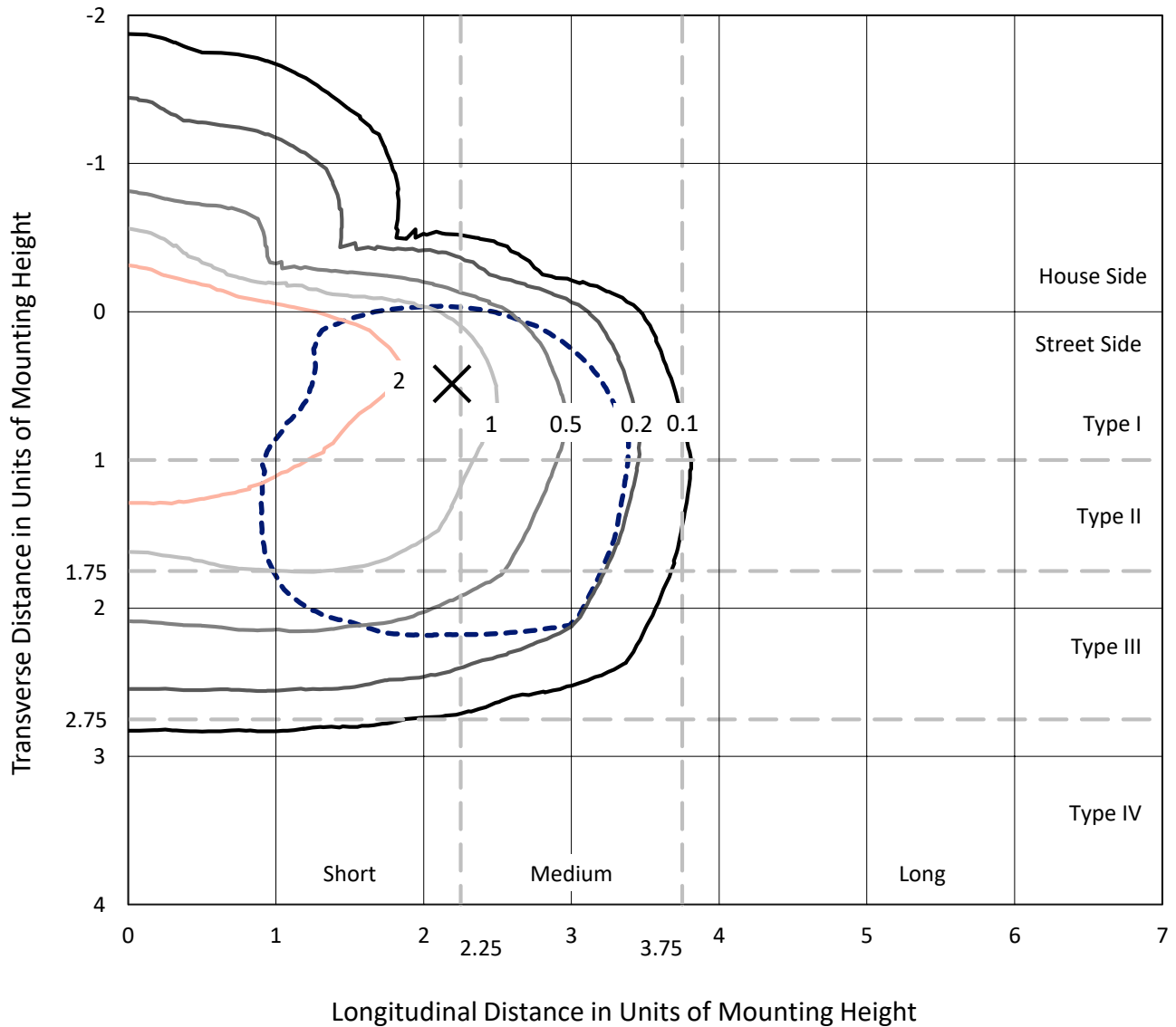


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Iso-Footcandle Lines of Horizontal Illumination

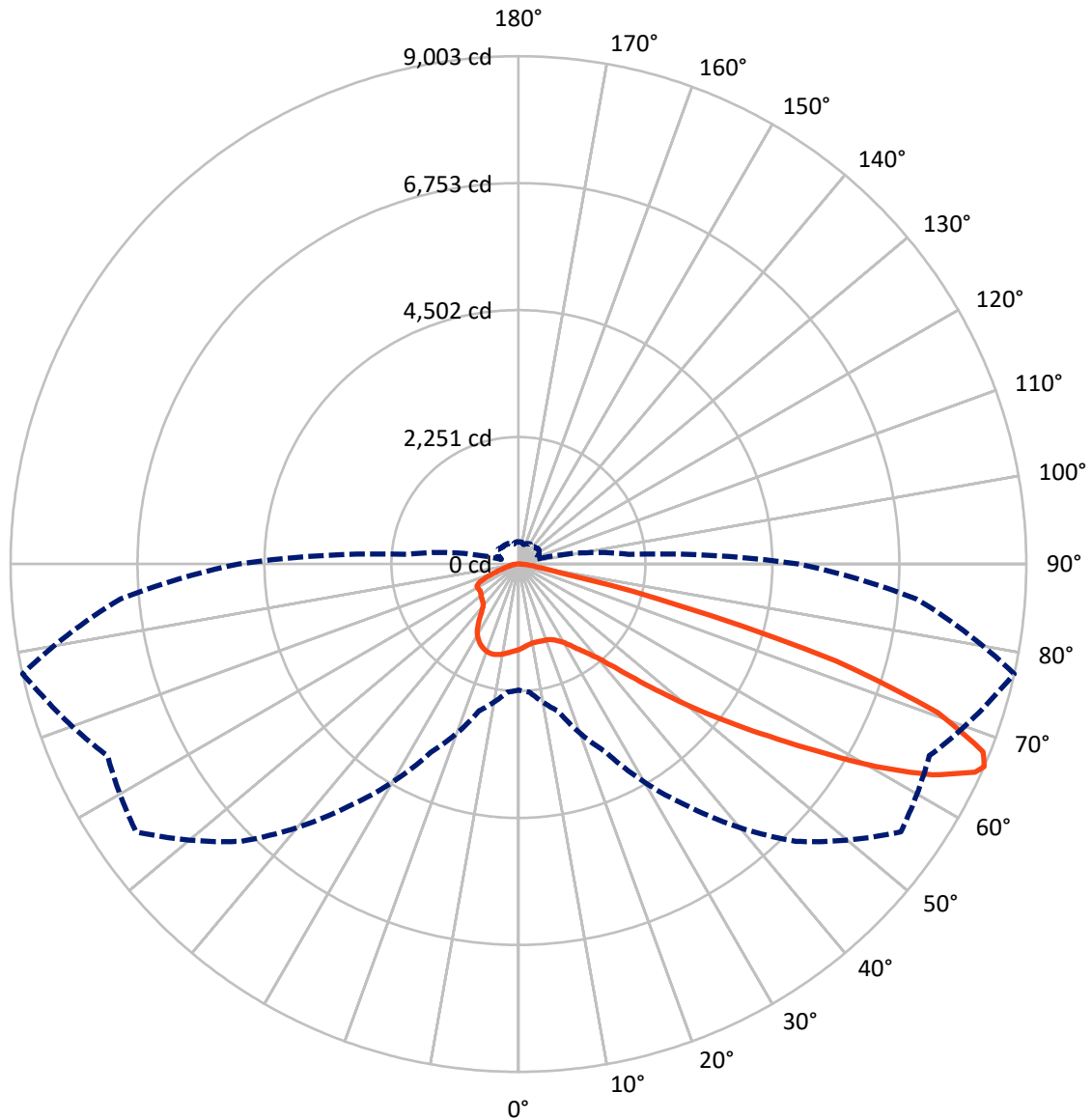
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	1817.1	0.0	1817.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8819.2	0.0	8819.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	10636.3	0.0	10636.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.3
10°-20°	382.0	3.6
20°-30°	652.0	6.1
30°-40°	1043.7	9.8
40°-50°	1612.5	15.2
50°-60°	2287.1	21.5
60°-70°	3059.5	28.8
70°-80°	1328.7	12.5
80°-90°	135.5	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°	10636.3	100.0
0°-180°	10636.3	100.0



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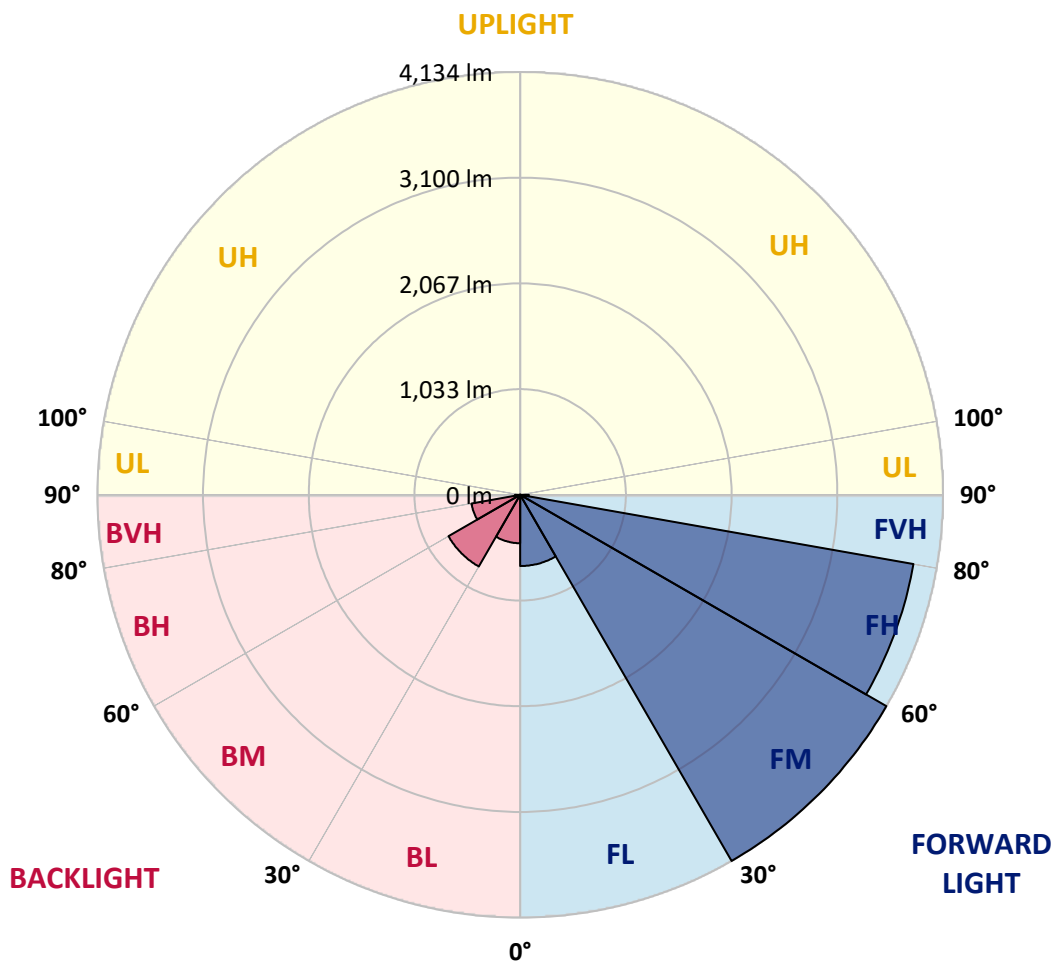
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.2	6.5			
FM	(30°-60°)	4133.8	38.9			
FH	(60°-80°)	3904.2	36.7			G2/5000
FVH	(80°-90°)	85.0	0.8			G1/100
BL	(0°-30°)	473.3	4.4	B1/500		
BM	(30°-60°)	809.4	7.6	B1/1000		
BH	(60°-80°)	483.9	4.5	B1/500		G1/500
BVH	(80°-90°)	50.5	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°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1340.8	1349.9	1357.3	1364.4	1378.4	1401.6	1428.2	1449.9	1481.0	1487.1	1503.7
5°	1217.7	1217.7	1223.8	1234.4	1253.3	1288.1	1324.2	1372.5	1440.3	1456.4	1500.7
7.5°	1157.8	1158.5	1161.9	1171.0	1187.6	1219.2	1259.0	1315.7	1407.6	1434.4	1509.7
10°	1180.1	1175.1	1167.4	1162.9	1165.5	1184.1	1221.8	1285.0	1387.6	1421.7	1529.9
12.5°	1303.6	1294.1	1268.0	1233.4	1200.1	1186.5	1208.7	1270.5	1379.0	1418.8	1556.5
15°	1505.6	1501.6	1452.9	1381.1	1300.7	1233.4	1218.2	1265.0	1380.1	1422.2	1588.2
17.5°	1759.1	1753.4	1689.2	1584.6	1453.4	1322.2	1251.9	1269.5	1383.6	1428.2	1618.7
20°	2014.8	1997.7	1928.3	1803.6	1635.4	1443.3	1307.7	1281.1	1388.2	1434.9	1650.9
22.5°	2205.8	2191.7	2129.3	2008.3	1814.2	1583.5	1382.5	1301.1	1402.7	1453.8	1690.6
25°	2373.6	2374.6	2312.7	2195.6	1995.1	1732.3	1479.0	1355.0	1439.9	1493.2	1744.9
27.5°	2581.2	2569.2	2511.3	2395.2	2174.1	1882.6	1595.6	1428.8	1495.0	1548.9	1816.3
30°	2829.4	2820.9	2754.1	2622.3	2372.7	2044.0	1728.8	1514.7	1566.5	1622.2	1909.7
32.5°	3121.4	3117.4	3047.9	2878.7	2601.9	2233.8	1885.2	1628.3	1673.1	1730.9	2044.0
35°	3464.1	3464.7	3382.7	3179.2	2852.6	2455.0	2062.5	1774.5	1802.7	1862.9	2203.7
37.5°	3675.2	3700.8	3670.2	3462.6	3136.5	2702.3	2292.7	1968.5	1950.4	2011.2	2375.1
40°	3720.5	3751.6	3848.6	3743.1	3454.2	2974.6	2496.7	2154.9	2132.3	2206.7	2595.7
42.5°	3657.1	3700.4	3905.4	3979.9	3791.3	3310.3	2771.1	2431.9	2403.2	2503.2	2870.2
45°	3619.5	3651.6	3888.9	4102.9	4083.9	3689.8	3120.4	2779.6	2769.1	2900.3	3186.7
47.5°	3554.1	3583.2	3811.4	4131.6	4255.7	4037.6	3540.0	3204.9	3225.5	3397.3	3544.1
50°	3589.3	3601.3	3725.0	4058.7	4305.4	4292.5	4009.0	3697.3	3767.8	3982.2	3948.6
52.5°	3584.2	3615.4	3714.9	3939.1	4312.0	4449.7	4470.8	4246.6	4394.9	4641.2	4397.5
55°	2897.8	2955.1	3596.9	3909.0	4335.1	4604.0	4881.8	4825.5	5102.1	5388.9	4903.9
57.5°	2767.0	2803.3	3159.1	3972.2	4457.7	4898.5	5339.3	5462.9	5925.2	6258.4	5521.2
60°	2741.4	2786.3	3154.6	4049.6	4706.5	5378.4	6017.1	6234.2	6926.8	7291.6	6236.8
62.5°	2661.6	2709.7	3124.9	4039.6	5059.9	6042.3	6885.1	7054.5	7876.7	8231.4	6835.4
65°	2408.3	2453.5	2883.2	3877.3	5298.1	6750.9	7912.4	7806.4	8626.5	8893.3	7133.9
66°	2235.0	2279.1	2692.7	3686.3	5242.7	6952.0	8276.2	8039.0	8794.3	9003.4	7075.6
67.5°	1917.8	1952.5	2322.8	3258.6	4948.8	7008.2	8582.2	8213.8	8812.0	8885.8	6742.4
70°	1211.6	1221.8	1509.7	2249.4	3746.1	6078.0	8116.4	7779.6	8085.3	7885.2	5652.3
72.5°	525.7	522.2	724.8	1144.4	2120.8	4078.2	6565.4	6419.2	6342.4	5886.1	3956.7
75°	292.5	296.5	376.4	531.2	862.0	2003.2	4294.8	4109.9	3470.2	2961.2	1794.2
77.5°	234.6	240.2	312.2	376.8	387.0	698.5	2009.8	1635.4	984.5	790.0	498.5
80°	185.4	195.6	272.4	293.4	260.9	287.9	649.4	519.1	389.4	357.3	258.4
82.5°	146.8	153.8	233.6	222.2	182.4	193.9	311.2	303.1	253.3	230.7	149.3
85°	105.6	118.5	192.0	167.4	119.7	130.7	206.5	197.9	145.3	118.5	65.8
87.5°	43.2	56.2	135.7	111.1	66.8	60.8	103.0	96.9	68.8	50.2	32.7
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°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1514.3	1526.3	1541.9	1551.5	1556.5	1559.9	1565.4	1564.9	1566.5	1567.1	1569.0
5°	1524.2	1544.4	1567.1	1573.0	1573.0	1567.5	1562.0	1552.9	1549.3	1548.4	1549.3
7.5°	1550.5	1572.6	1592.2	1585.1	1570.0	1547.9	1519.3	1494.2	1480.5	1476.1	1474.9
10°	1583.5	1610.2	1618.2	1591.5	1547.4	1494.2	1437.3	1396.1	1372.5	1366.0	1363.9
12.5°	1623.7	1648.8	1637.9	1581.6	1499.6	1413.8	1335.3	1269.5	1220.2	1204.6	1203.5
15°	1668.1	1687.6	1648.8	1550.5	1428.2	1301.6	1161.9	1048.3	987.1	967.5	965.9
17.5°	1709.2	1719.3	1642.5	1496.1	1323.3	1118.2	932.8	845.3	824.3	829.2	830.3
20°	1744.4	1744.4	1620.3	1418.2	1157.8	876.4	759.3	757.9	772.9	788.1	791.0
22.5°	1783.0	1760.0	1581.6	1308.1	923.6	717.1	700.0	714.2	731.2	747.7	750.4
25°	1830.8	1772.5	1527.7	1141.3	726.2	651.4	657.9	669.3	678.0	688.6	690.0
27.5°	1884.1	1788.6	1457.0	911.6	630.3	610.0	615.1	619.1	618.2	622.2	623.2
30°	1948.0	1807.2	1359.9	712.6	590.5	574.9	565.9	562.3	562.3	568.8	571.4
32.5°	2033.4	1834.9	1220.7	610.6	571.4	549.9	520.7	507.6	512.7	534.8	539.7
35°	2127.4	1864.5	1032.2	576.0	567.4	538.3	493.0	468.8	469.4	489.9	496.6
37.5°	2229.9	1902.3	825.7	569.3	576.4	538.8	478.4	445.3	431.6	431.6	434.2
40°	2361.0	1940.9	668.3	573.9	595.5	544.8	470.9	426.6	388.4	389.4	391.5
42.5°	2532.0	1974.0	584.0	583.4	618.7	552.7	470.4	402.0	368.8	391.5	412.1
45°	2721.9	1990.6	546.8	592.1	637.3	557.8	462.4	397.9	371.4	438.7	478.0
47.5°	2940.5	1981.1	526.1	595.0	641.7	557.8	453.4	407.7	389.0	508.1	553.9
50°	3180.2	1953.5	506.0	589.0	640.2	556.8	461.9	417.2	395.6	520.2	551.7
52.5°	3462.2	1930.4	484.9	576.0	629.7	551.3	471.9	413.1	375.0	472.9	495.1
55°	3783.8	1936.8	461.4	557.4	613.2	540.8	468.3	397.1	353.4	416.6	430.2
57.5°	4194.8	2014.8	433.3	533.8	590.5	523.2	455.8	389.4	346.7	377.9	385.9
60°	4653.7	2150.5	397.9	510.1	562.3	495.1	446.3	393.0	349.8	375.0	378.9
62.5°	4990.4	2229.4	367.9	475.5	524.3	463.9	434.2	397.5	357.9	385.5	384.5
65°	5081.9	2099.7	330.1	424.7	472.4	431.1	419.1	402.5	361.4	393.9	389.4
66°	4953.8	1960.0	313.6	401.1	446.3	415.0	411.7	402.0	359.9	395.1	387.4
67.5°	4642.7	1673.5	284.9	366.4	404.5	391.0	399.6	397.5	355.8	393.9	383.4
70°	3786.3	1141.8	243.7	305.1	336.8	344.2	376.4	381.4	342.8	376.4	353.4
72.5°	2645.5	695.6	215.7	236.8	272.4	293.4	344.8	359.3	325.1	328.7	306.5
75°	1278.5	369.5	195.6	183.4	211.6	245.2	306.5	329.1	297.5	274.9	266.8
77.5°	398.6	225.7	165.8	147.7	165.8	197.9	256.2	288.4	264.8	230.1	227.1
80°	214.1	165.8	127.6	118.5	131.2	155.2	201.5	240.7	227.7	206.5	184.4
82.5°	141.3	107.5	94.5	91.9	100.0	118.5	149.7	199.6	199.6	176.8	128.6
85°	72.9	65.8	64.9	64.9	69.9	79.0	102.0	153.8	163.9	93.5	77.4
87.5°	36.2	37.6	35.2	36.7	39.2	38.6	48.8	77.4	92.4	56.9	47.3
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)