

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: P269191

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269191
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13041.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

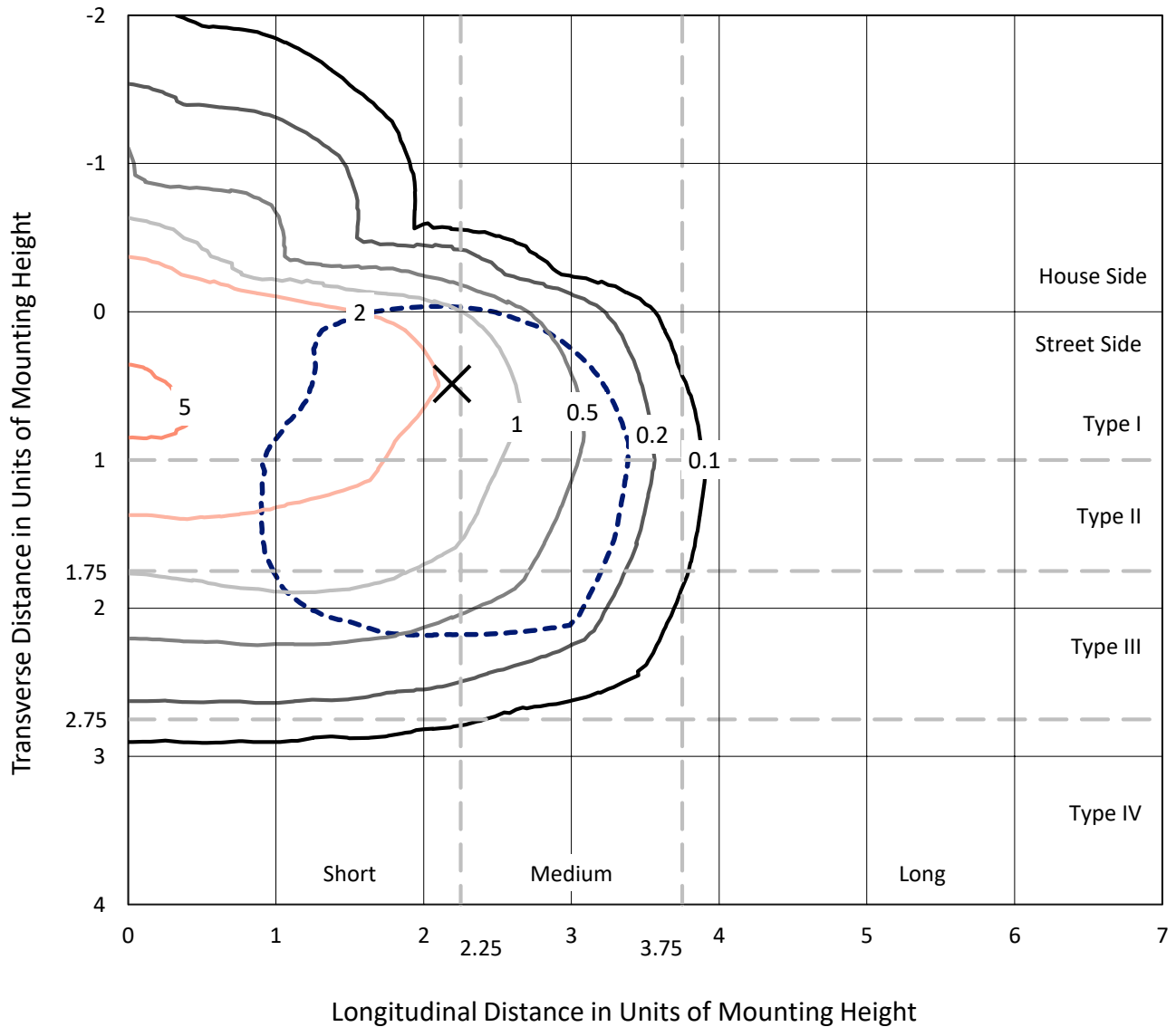


REPORT NUMBER: P269191

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

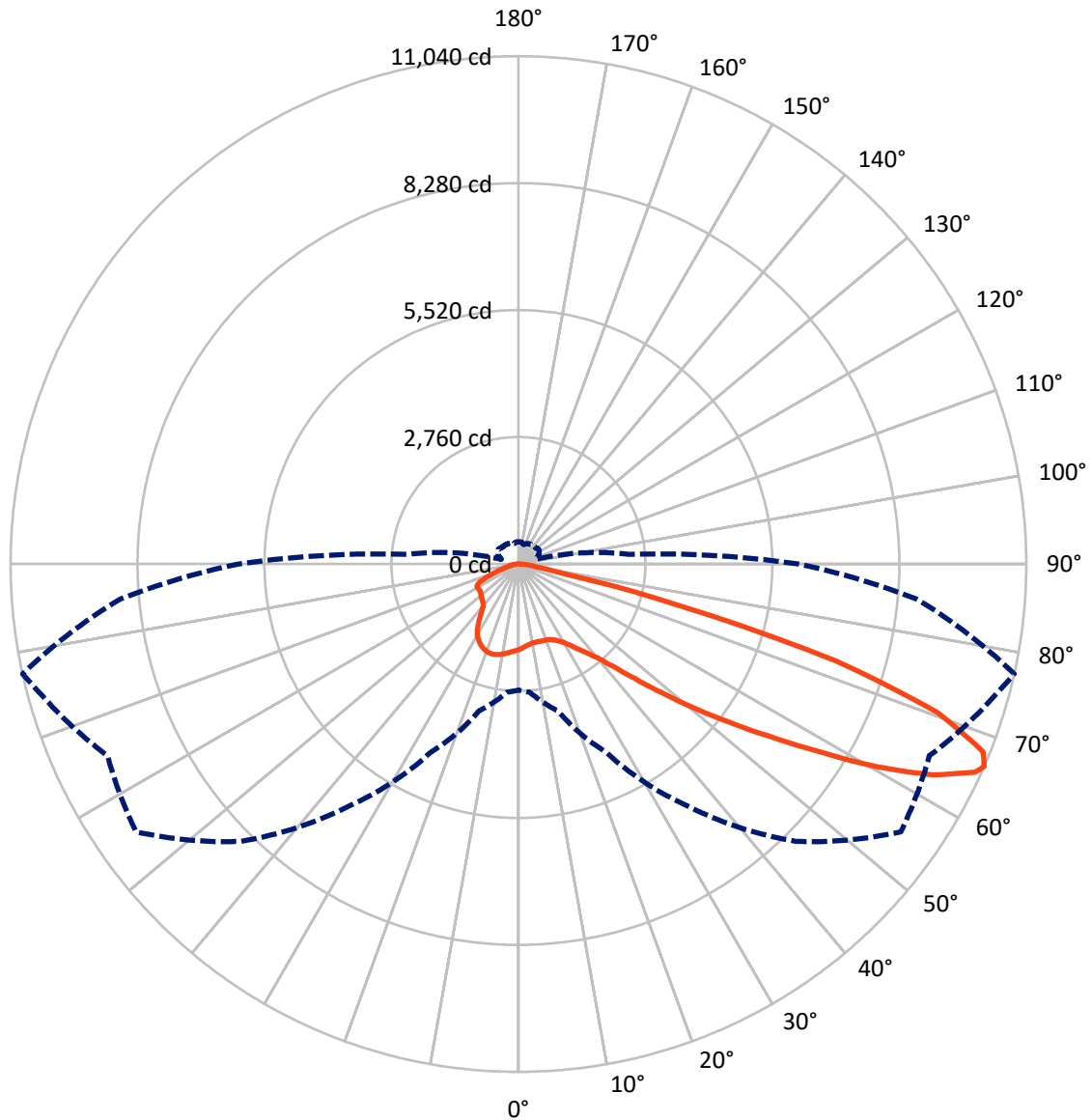


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269191

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7027-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269191

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2228.1	0.0	2228.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10813.8	0.0	10813.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	13041.9	0.0	13041.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.3
10°-20°	468.4	3.6
20°-30°	799.5	6.1
30°-40°	1279.8	9.8
40°-50°	1977.2	15.2
50°-60°	2804.3	21.5
60°-70°	3751.4	28.8
70°-80°	1629.2	12.5
80°-90°	166.1	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°	13041.9	100.0
0°-180°	13041.9	100.0



REPORT NUMBER: P269191

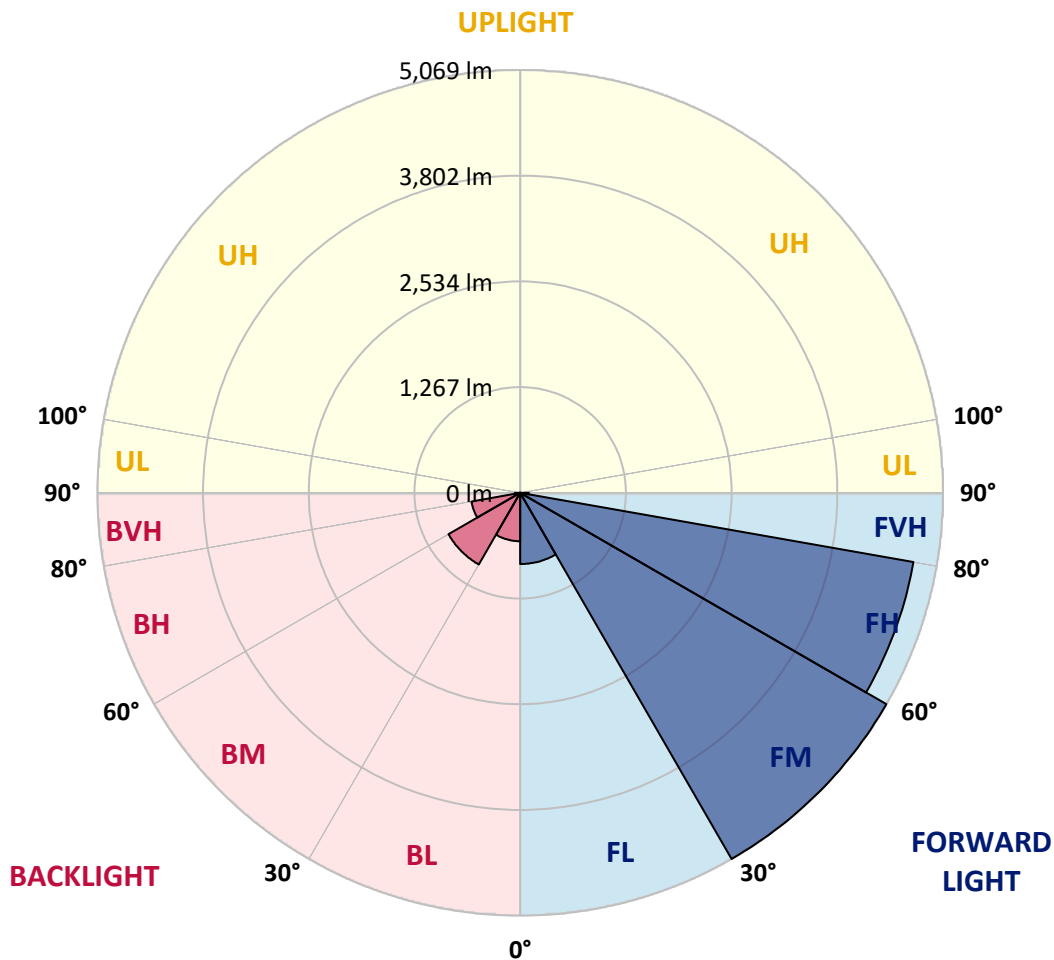
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.7	6.5			
FM	(30°-60°)	5068.8	38.9			
FH	(60°-80°)	4787.2	36.7			G2/5000
FVH	(80°-90°)	104.2	0.8			G2/225
BL	(0°-30°)	580.3	4.4	B2/1000		
BM	(30°-60°)	992.5	7.6	B1/1000		
BH	(60°-80°)	593.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	61.9	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





REPORT NUMBER: P269191

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6
2.5°	1644.1	1655.1	1664.4	1673.1	1690.3	1718.6	1751.3	1777.8	1816.1	1823.4	1843.7
5°	1493.2	1493.2	1500.4	1513.5	1536.9	1579.4	1623.7	1683.0	1766.1	1785.8	1840.1
7.5°	1419.9	1420.4	1424.7	1435.9	1456.2	1495.0	1543.6	1613.3	1726.1	1758.7	1851.1
10°	1446.9	1440.7	1431.4	1426.0	1429.1	1451.8	1498.1	1575.6	1701.4	1743.3	1875.8
12.5°	1598.4	1586.8	1554.7	1512.2	1471.6	1455.0	1482.1	1557.8	1690.9	1739.6	1908.4
15°	1846.1	1841.3	1781.5	1693.3	1594.9	1512.2	1493.7	1551.1	1692.1	1743.9	1947.3
17.5°	2156.8	2150.1	2071.1	1942.9	1782.1	1621.4	1535.1	1556.7	1696.4	1751.3	1984.8
20°	2470.5	2449.5	2364.5	2211.6	2005.1	1769.8	1603.5	1570.7	1702.0	1759.3	2024.3
22.5°	2704.5	2687.4	2611.0	2462.4	2224.6	1941.7	1695.2	1595.4	1719.8	1782.7	2073.0
25°	2910.4	2911.6	2835.9	2692.3	2446.4	2124.1	1813.6	1661.3	1765.4	1830.7	2139.6
27.5°	3165.0	3150.1	3079.3	2936.9	2665.8	2308.4	1956.5	1752.0	1833.4	1899.1	2227.1
30°	3469.3	3458.8	3376.9	3215.5	2909.3	2506.2	2119.8	1857.2	1920.8	1989.1	2341.6
32.5°	3827.4	3822.5	3737.4	3529.7	3190.2	2739.1	2311.5	1996.6	2051.4	2122.2	2506.2
35°	4247.6	4248.3	4147.8	3898.3	3497.7	3010.3	2529.0	2175.9	2210.4	2284.3	2702.1
37.5°	4506.4	4537.9	4500.2	4245.7	3845.9	3313.5	2811.2	2413.7	2391.6	2466.1	2912.2
40°	4562.0	4600.1	4719.1	4589.6	4235.2	3647.5	3061.5	2642.4	2614.6	2705.9	3182.9
42.5°	4484.2	4537.2	4788.7	4880.0	4648.8	4059.1	3397.8	2982.0	2946.8	3069.4	3519.3
45°	4438.0	4477.5	4768.4	5030.9	5007.4	4524.4	3826.2	3408.3	3395.5	3556.2	3907.4
47.5°	4357.9	4393.7	4673.4	5066.0	5218.3	4950.7	4340.7	3929.6	3955.0	4165.7	4345.6
50°	4401.1	4415.9	4567.4	4976.6	5279.2	5263.2	4915.6	4533.6	4619.9	4882.9	4841.7
52.5°	4394.9	4433.1	4555.1	4829.9	5287.2	5456.0	5481.9	5207.1	5388.9	5690.9	5391.9
55°	3553.2	3623.5	4410.3	4792.9	5315.6	5645.3	5986.0	5917.0	6255.9	6607.8	6013.2
57.5°	3393.0	3437.4	3873.6	4870.6	5465.9	6006.3	6546.8	6698.4	7265.3	7673.9	6769.8
60°	3361.5	3416.3	3868.0	4965.6	5770.9	6594.8	7378.0	7644.2	8493.5	8940.8	7647.4
62.5°	3263.5	3322.7	3831.7	4953.3	6204.1	7409.0	8442.4	8650.0	9658.0	10093.1	8381.2
65°	2953.0	3008.5	3535.3	4754.2	6496.3	8277.7	9701.9	9571.8	10577.5	10904.7	8747.3
66°	2740.4	2794.5	3301.7	4520.0	6428.5	8524.2	10148.1	9857.1	10783.3	11039.7	8675.8
67.5°	2351.6	2394.1	2848.2	3995.7	6068.1	8593.2	10523.3	10071.5	10805.0	10895.5	8267.3
70°	1485.7	1498.1	1851.1	2758.2	4593.4	7452.6	9952.1	9539.2	9913.9	9668.5	6930.8
72.5°	644.5	640.2	888.7	1403.2	2600.5	5000.7	8050.4	7871.0	7776.7	7217.3	4851.6
75°	358.7	363.5	461.5	651.4	1056.9	2456.2	5266.3	5039.5	4255.0	3630.8	2199.9
77.5°	287.7	294.6	382.7	462.2	474.5	856.5	2464.3	2005.1	1207.2	968.7	611.2
80°	227.5	239.7	334.0	360.0	319.8	353.2	796.2	636.5	477.5	438.2	316.7
82.5°	179.9	188.6	286.6	272.4	223.7	238.0	381.4	371.5	310.5	282.8	183.1
85°	129.4	145.4	235.4	205.3	146.7	160.2	253.2	242.8	178.0	145.4	80.7
87.5°	53.0	69.0	166.4	136.3	81.9	74.6	126.3	118.9	84.4	61.7	40.1
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°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6
2.5°	1856.6	1871.4	1890.7	1902.3	1908.4	1912.9	1919.6	1918.9	1920.8	1921.4	1923.9
5°	1869.1	1893.6	1921.4	1928.8	1928.8	1922.1	1915.2	1904.1	1899.8	1898.6	1899.8
7.5°	1901.1	1928.2	1952.1	1943.6	1925.1	1897.9	1862.8	1832.1	1815.5	1809.8	1808.6
10°	1941.7	1974.4	1984.3	1951.6	1897.4	1832.1	1762.5	1711.9	1683.0	1674.9	1672.5
12.5°	1991.1	2021.8	2008.3	1939.4	1838.8	1733.4	1637.3	1556.7	1496.1	1477.2	1475.8
15°	2045.3	2069.2	2021.8	1901.1	1751.3	1596.0	1424.7	1285.5	1210.2	1186.2	1184.3
17.5°	2095.7	2108.1	2013.8	1834.5	1622.5	1371.2	1143.7	1036.5	1010.7	1016.8	1018.0
20°	2139.0	2139.0	1986.7	1738.9	1419.9	1074.7	931.2	929.2	947.7	966.2	969.9
22.5°	2186.4	2158.0	1939.4	1604.1	1132.7	879.4	858.4	875.7	896.6	916.9	920.0
25°	2245.0	2173.4	1873.3	1399.5	890.4	798.7	806.7	820.8	831.3	844.2	846.1
27.5°	2310.3	2193.1	1786.4	1117.9	772.7	748.1	754.2	759.2	758.0	762.9	764.1
30°	2388.6	2215.9	1667.6	873.8	724.0	705.0	693.9	689.5	689.5	697.5	700.7
32.5°	2493.2	2249.8	1496.8	748.6	700.7	674.2	638.4	622.3	628.5	655.7	661.8
35°	2608.5	2286.1	1265.7	706.2	695.6	660.0	604.5	574.9	575.5	600.8	608.8
37.5°	2734.3	2332.4	1012.5	698.3	706.7	660.7	586.7	546.0	529.3	529.3	532.4
40°	2895.1	2379.9	819.6	703.7	730.2	668.0	577.4	523.2	476.3	477.5	480.1
42.5°	3104.5	2420.6	716.0	715.4	758.6	677.9	576.8	493.0	452.2	480.1	505.2
45°	3337.5	2440.9	670.5	725.9	781.3	684.0	566.9	488.0	455.4	537.9	586.1
47.5°	3605.5	2429.1	645.3	729.7	786.9	684.0	555.8	499.7	477.0	623.1	679.1
50°	3899.5	2395.3	620.5	722.1	785.1	682.8	566.3	511.5	484.9	637.7	676.7
52.5°	4245.2	2366.9	594.7	706.2	772.2	676.1	578.7	506.6	459.8	579.9	607.0
55°	4639.6	2374.8	565.8	683.4	751.8	663.0	574.3	486.8	433.3	510.9	527.5
57.5°	5143.6	2470.5	531.2	654.4	724.0	641.5	558.9	477.5	425.2	463.3	473.2
60°	5706.3	2636.9	488.0	625.5	689.5	607.0	547.2	481.9	428.9	459.8	464.7
62.5°	6119.2	2733.6	451.0	582.9	642.7	568.7	532.4	487.4	438.7	472.7	471.4
65°	6231.3	2574.6	404.9	520.7	579.2	528.7	513.9	493.6	443.0	483.1	477.5
66°	6074.1	2403.2	384.6	491.7	547.2	509.0	504.7	493.0	441.2	484.4	475.2
67.5°	5692.6	2052.0	349.4	449.2	496.0	479.4	489.8	487.4	436.2	483.1	470.3
70°	4642.6	1400.1	298.9	374.1	413.0	422.2	461.5	467.7	420.2	461.5	433.3
72.5°	3243.8	852.9	264.3	290.2	334.0	360.0	422.7	440.6	398.7	403.0	375.9
75°	1567.7	452.9	239.7	224.9	259.4	300.8	375.9	403.6	364.8	337.0	327.3
77.5°	488.7	276.7	203.3	181.2	203.3	242.8	314.2	353.8	324.7	282.2	278.6
80°	262.6	203.3	156.6	145.4	160.8	190.4	247.2	295.2	279.2	253.2	226.2
82.5°	173.2	132.0	115.8	112.7	122.6	145.4	183.7	244.7	244.7	216.9	157.7
85°	89.3	80.7	79.5	79.5	85.7	96.7	125.1	188.6	201.0	114.7	95.0
87.5°	44.3	46.3	43.1	44.9	48.1	47.4	59.7	95.0	113.4	69.6	57.9
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)