

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: P269350

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269350
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-05-LED-E1-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 17411.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

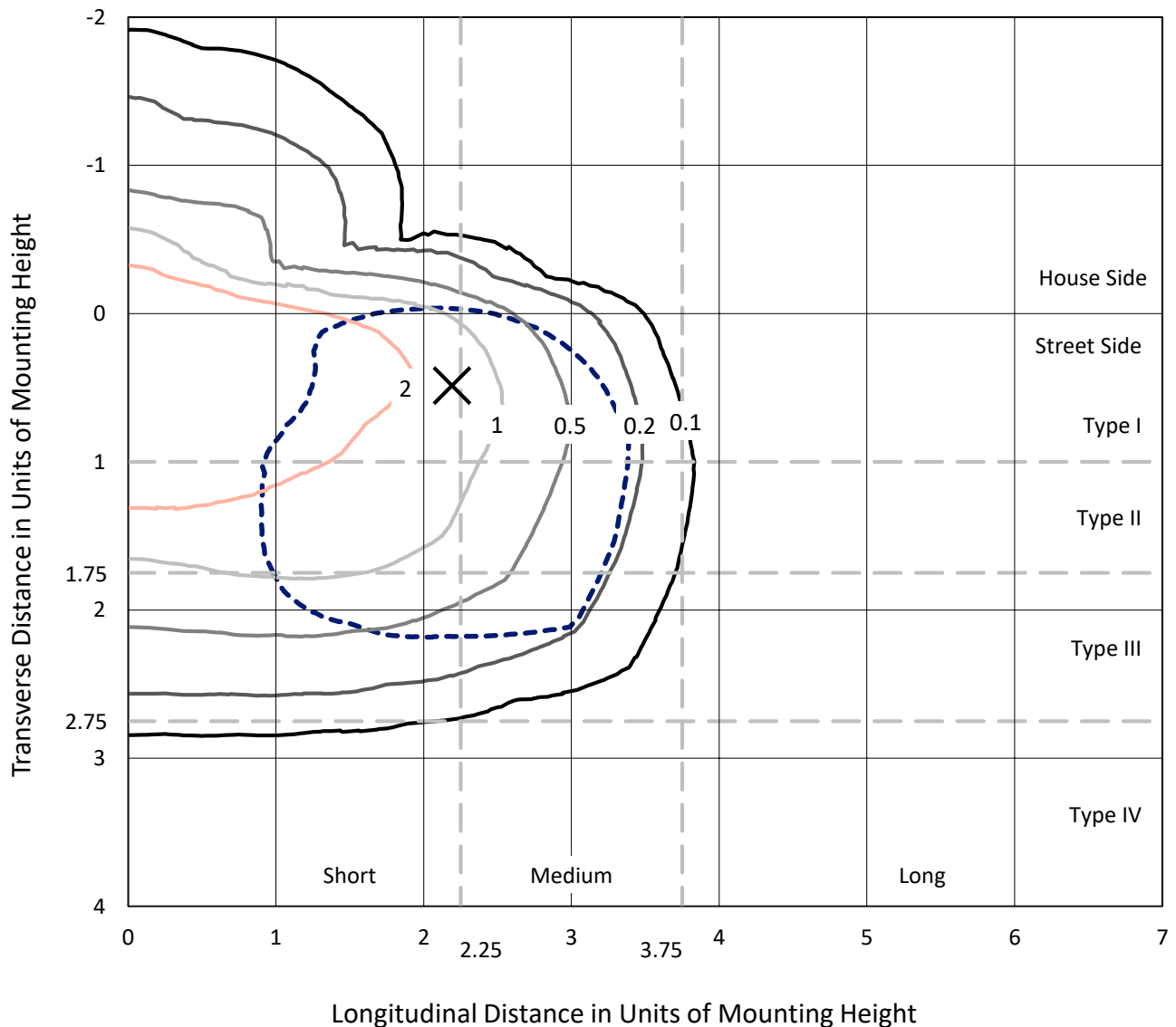


REPORT NUMBER: P269350

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

Iso-Footcandle Lines of Horizontal Illumination

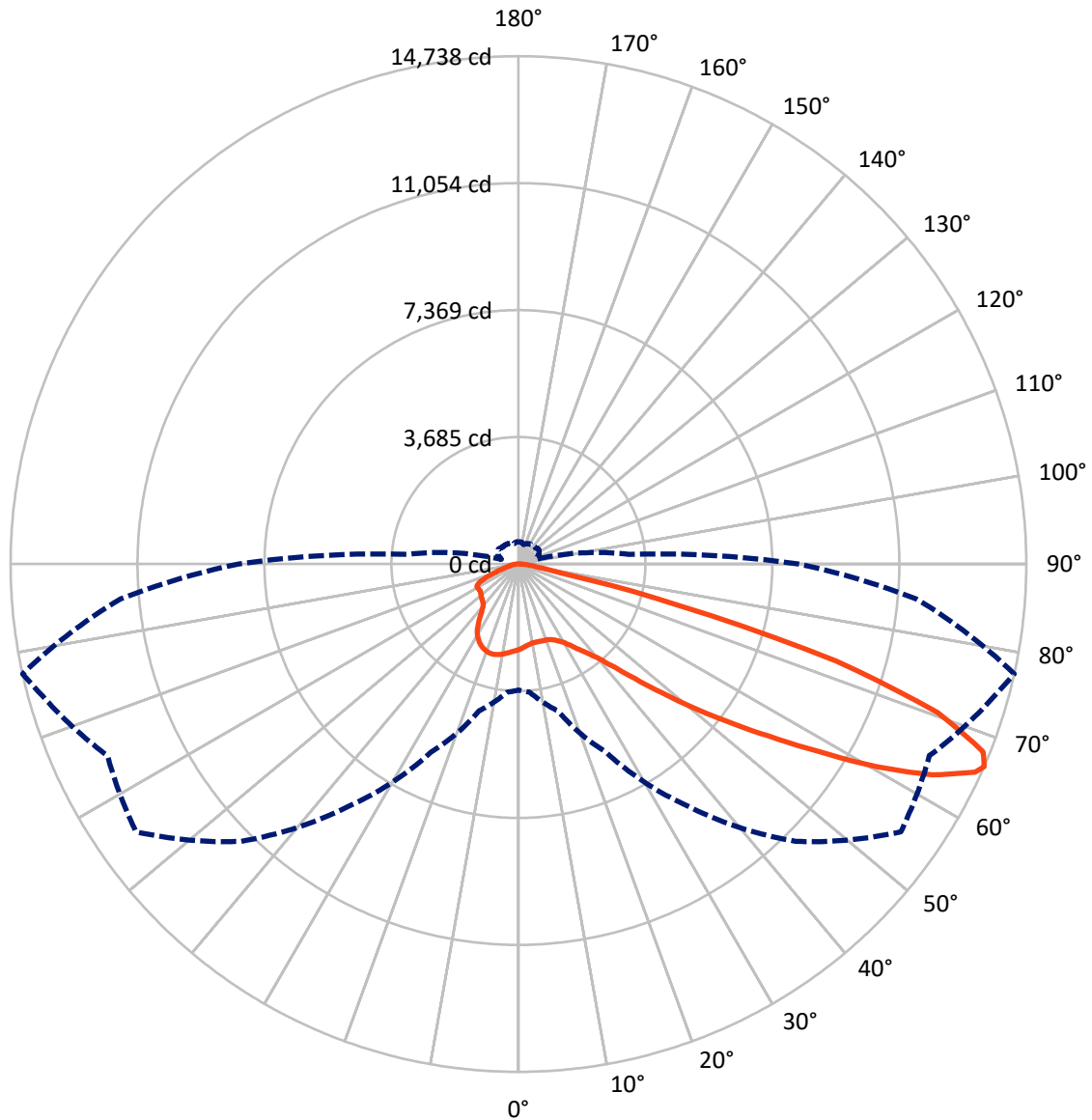
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269350
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269350

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2974.7	0.0	2974.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14436.8	0.0	14436.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	17411.5	0.0	17411.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.3
10°-20°	625.4	3.6
20°-30°	1067.3	6.1
30°-40°	1708.6	9.8
40°-50°	2639.6	15.2
50°-60°	3743.9	21.5
60°-70°	5008.3	28.8
70°-80°	2175.0	12.5
80°-90°	221.8	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°	17411.5	100.0
0°-180°	17411.5	100.0



REPORT NUMBER: P269350

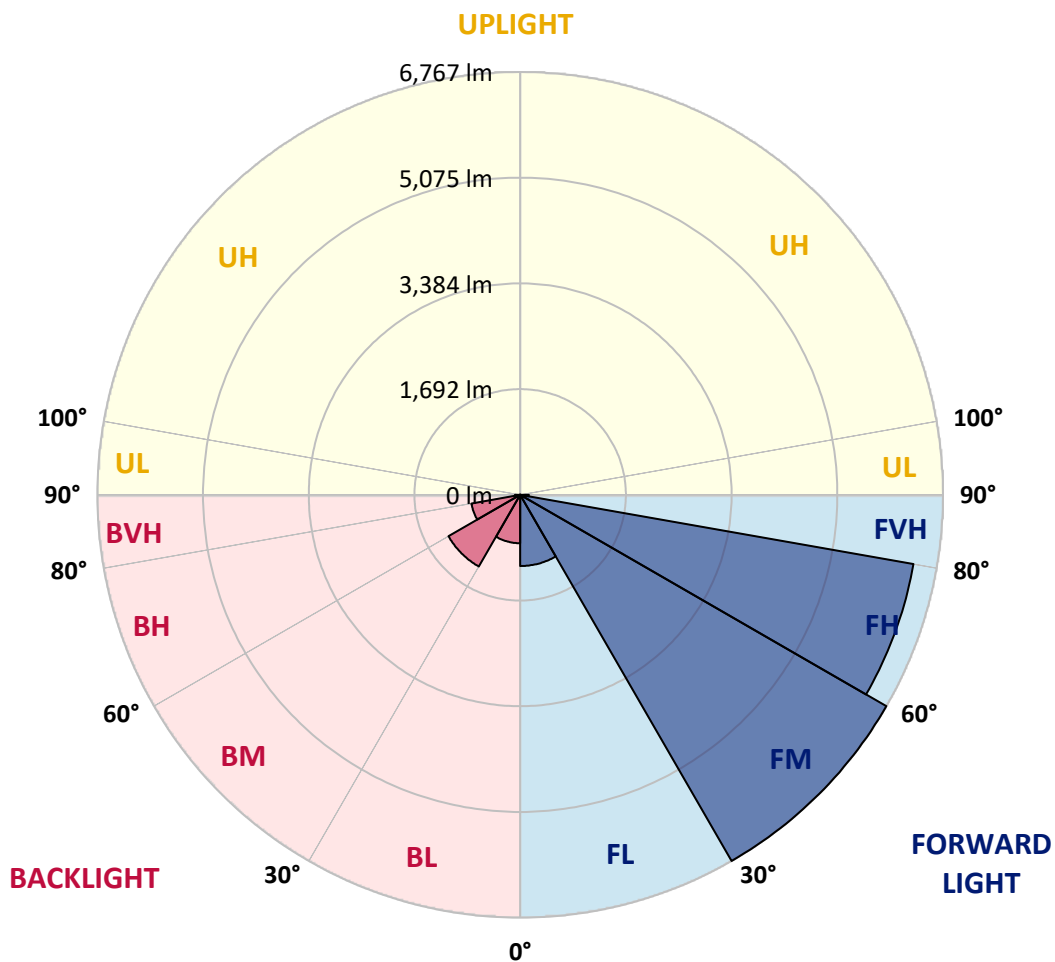
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.7	6.5			
FM (30°-60°)	6767.0	38.9			
FH (60°-80°)	6391.1	36.7			G3/7500
FVH (80°-90°)	139.1	0.8			G2/225
BL (0°-30°)	774.7	4.4	B2/1000		
BM (30°-60°)	1325.0	7.6	B2/2500		
BH (60°-80°)	792.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	82.7	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-G3

Type III Short





REPORT NUMBER: P269350

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2
2.5°	2194.9	2209.7	2222.0	2233.5	2256.6	2294.5	2338.1	2373.4	2424.4	2434.3	2461.4
5°	1993.3	1993.3	2003.2	2020.5	2051.8	2108.5	2167.8	2246.8	2357.8	2384.1	2456.5
7.5°	1895.5	1896.3	1902.0	1916.9	1944.0	1995.9	2060.8	2153.7	2304.3	2347.9	2471.3
10°	1931.6	1923.5	1911.1	1903.7	1907.8	1938.3	1999.9	2103.7	2271.5	2327.4	2504.3
12.5°	2134.1	2118.5	2075.7	2018.9	1964.6	1942.3	1978.5	2079.8	2257.4	2322.5	2547.9
15°	2464.8	2458.2	2378.4	2260.8	2129.2	2018.9	1994.1	2070.8	2259.1	2328.1	2599.7
17.5°	2879.3	2870.4	2765.1	2593.9	2379.3	2164.5	2049.4	2078.0	2264.8	2338.1	2649.9
20°	3298.1	3270.2	3156.6	2952.5	2676.9	2362.7	2140.7	2097.1	2272.3	2348.8	2702.6
22.5°	3610.7	3587.7	3485.8	3287.4	2969.8	2592.2	2263.2	2129.9	2296.1	2380.0	2767.5
25°	3885.6	3887.1	3785.9	3594.3	3266.1	2835.8	2421.1	2217.9	2357.1	2444.2	2856.4
27.5°	4225.3	4205.5	4111.0	3920.9	3558.9	3081.7	2612.0	2338.8	2447.5	2535.6	2973.2
30°	4631.8	4617.7	4508.4	4292.8	3883.9	3345.8	2830.0	2479.6	2564.3	2655.6	3126.2
32.5°	5109.6	5103.1	4989.5	4712.4	4259.0	3656.8	3085.9	2665.5	2738.8	2833.3	3345.8
35°	5670.8	5671.5	5537.5	5204.3	4669.6	4018.7	3376.3	2904.8	2951.0	3049.7	3607.5
37.5°	6016.3	6058.3	6008.0	5668.3	5134.4	4423.6	3753.1	3222.5	3192.8	3292.4	3888.0
40°	6090.4	6141.4	6300.2	6127.3	5654.3	4869.5	4087.1	3527.6	3490.6	3612.4	4249.2
42.5°	5986.7	6057.5	6393.1	6514.9	6206.3	5419.0	4536.4	3981.0	3934.0	4097.8	4698.3
45°	5925.0	5977.6	6366.0	6716.4	6685.1	6040.2	5108.0	4550.3	4532.9	4747.7	5216.6
47.5°	5818.1	5865.8	6239.3	6763.2	6966.4	6609.5	5795.0	5246.3	5280.0	5561.3	5801.6
50°	5875.6	5895.3	6097.8	6644.0	7047.9	7026.5	6562.6	6052.5	6167.7	6519.0	6463.8
52.5°	5867.4	5918.5	6081.3	6448.3	7058.6	7284.0	7318.6	6951.8	7194.3	7597.4	7198.5
55°	4743.6	4837.5	5888.0	6398.8	7096.5	7536.6	7991.5	7899.4	8351.9	8821.6	8027.8
57.5°	4529.8	4588.9	5171.5	6502.6	7297.2	8018.7	8740.1	8942.5	9699.4	10244.9	9037.9
60°	4487.8	4561.0	5163.9	6629.2	7704.5	8804.4	9850.0	10205.5	11339.0	11936.4	10209.5
62.5°	4356.9	4435.9	5115.5	6612.8	8282.8	9891.1	11270.8	11548.0	12893.9	13474.8	11189.4
65°	3942.3	4016.3	4719.8	6347.1	8672.7	11051.0	12952.3	12778.7	14121.4	14558.2	11678.1
66°	3658.4	3730.9	4408.0	6034.5	8582.2	11380.2	13548.0	13159.7	14396.1	14738.4	11582.6
67.5°	3139.3	3196.1	3802.4	5334.2	8100.9	11472.3	14049.0	13446.0	14425.0	14545.9	11037.1
70°	1983.5	1999.9	2471.3	3682.3	6132.3	9949.5	13286.4	12735.2	13235.4	12907.9	9252.7
72.5°	860.5	854.7	1186.3	1873.2	3471.7	6676.2	10747.5	10508.2	10382.3	9635.3	6477.0
75°	478.7	485.4	616.1	869.6	1410.9	3279.3	7030.7	6727.9	5680.6	4847.3	2937.0
77.5°	384.1	393.3	510.9	617.0	633.5	1143.5	3290.0	2676.9	1611.6	1293.3	816.1
80°	303.5	320.1	445.9	480.5	427.0	471.4	1063.0	849.8	637.5	584.9	422.8
82.5°	240.2	251.7	382.6	363.6	298.6	317.6	509.2	496.0	414.7	377.6	244.2
85°	172.7	194.2	314.2	274.0	195.8	213.8	338.1	324.2	237.7	194.2	107.7
87.5°	70.7	92.2	222.2	181.7	109.5	99.5	168.6	158.8	112.6	82.3	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269350

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3R-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2	2481.2
2.5°	2478.8	2498.5	2524.0	2539.6	2547.9	2553.6	2562.7	2561.8	2564.3	2565.1	2568.4
5°	2495.2	2528.1	2565.1	2575.0	2575.0	2566.0	2556.8	2542.2	2536.4	2534.7	2536.4
7.5°	2538.0	2574.3	2606.3	2594.8	2570.1	2533.8	2487.0	2445.8	2423.6	2416.3	2414.6
10°	2592.2	2635.8	2649.0	2605.4	2533.0	2445.8	2352.9	2285.4	2246.8	2236.1	2232.7
12.5°	2658.1	2699.2	2681.1	2588.9	2454.9	2314.3	2185.8	2078.0	1997.6	1972.0	1970.3
15°	2730.5	2762.6	2699.2	2538.0	2338.1	2130.8	1902.0	1716.1	1615.7	1583.6	1581.1
17.5°	2798.0	2814.4	2688.5	2449.0	2166.2	1830.4	1526.8	1383.7	1349.3	1357.3	1359.0
20°	2855.5	2855.5	2652.3	2321.6	1895.5	1434.8	1243.1	1240.6	1265.4	1290.0	1294.8
22.5°	2919.0	2881.0	2588.9	2141.5	1512.0	1173.9	1146.0	1169.1	1197.0	1224.2	1228.3
25°	2997.0	2901.6	2501.1	1868.4	1188.7	1066.2	1076.9	1095.8	1109.8	1127.1	1129.6
27.5°	3084.2	2927.9	2385.0	1492.4	1031.7	998.7	1007.0	1013.6	1011.9	1018.5	1020.1
30°	3188.8	2958.4	2226.2	1166.5	966.7	941.2	926.3	920.7	920.7	931.4	935.3
32.5°	3328.6	3003.7	1998.3	999.5	935.3	900.0	852.3	830.9	839.1	875.4	883.6
35°	3482.4	3052.3	1689.8	942.9	928.8	881.1	807.0	767.5	768.4	802.1	812.7
37.5°	3650.3	3113.9	1351.7	932.1	943.6	882.0	783.2	729.0	706.6	706.6	710.7
40°	3865.0	3177.2	1094.1	939.4	974.9	891.7	770.8	698.4	635.9	637.5	640.9
42.5°	4144.7	3231.6	955.9	955.2	1012.7	905.0	770.0	658.2	603.8	640.9	674.5
45°	4455.7	3258.6	895.2	969.1	1043.1	913.1	756.9	651.6	608.0	718.3	782.3
47.5°	4813.6	3243.1	861.4	974.0	1050.6	913.1	742.1	667.3	636.8	831.7	906.6
50°	5205.9	3197.7	828.4	964.2	1048.1	911.5	756.1	682.8	647.5	851.5	903.3
52.5°	5667.4	3160.0	793.9	942.9	1030.8	902.4	772.5	676.2	613.7	774.2	810.4
55°	6194.1	3170.7	755.2	912.4	1003.6	885.2	766.8	650.0	578.4	682.1	704.2
57.5°	6867.0	3298.1	709.1	873.7	966.7	856.4	746.2	637.5	567.6	618.7	631.8
60°	7618.0	3520.3	651.6	835.1	920.7	810.4	730.5	643.4	572.6	613.7	620.3
62.5°	8169.2	3649.5	602.3	778.2	858.2	759.3	710.7	650.7	585.8	631.0	629.4
65°	8319.1	3437.2	540.5	695.2	773.4	705.9	686.1	658.9	591.5	645.1	637.5
66°	8109.2	3208.4	513.3	656.5	730.5	679.6	673.8	658.2	589.1	646.6	634.4
67.5°	7600.0	2739.6	466.5	599.8	662.3	640.0	654.1	650.7	582.6	645.1	627.7
70°	6198.1	1869.2	398.9	499.4	551.2	563.5	616.1	624.4	561.1	616.1	578.4
72.5°	4330.5	1138.6	352.9	387.4	445.9	480.5	564.3	588.2	532.2	538.1	501.9
75°	2093.0	604.6	320.1	300.3	346.3	401.5	501.9	538.9	487.1	450.1	436.8
77.5°	652.3	369.5	271.5	241.9	271.5	324.2	419.6	472.1	433.5	376.7	371.9
80°	350.5	271.5	208.9	194.2	214.8	254.2	329.9	394.0	372.6	338.1	301.9
82.5°	231.1	176.1	154.7	150.6	163.8	194.2	245.1	326.7	326.7	289.6	210.7
85°	119.3	107.7	106.1	106.1	114.4	129.1	167.1	251.7	268.2	153.0	126.8
87.5°	59.3	61.8	57.6	60.0	64.1	63.3	79.8	126.8	151.4	93.0	77.3
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)