

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: P269271

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269271
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-04-LED-E1-T3R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17232.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

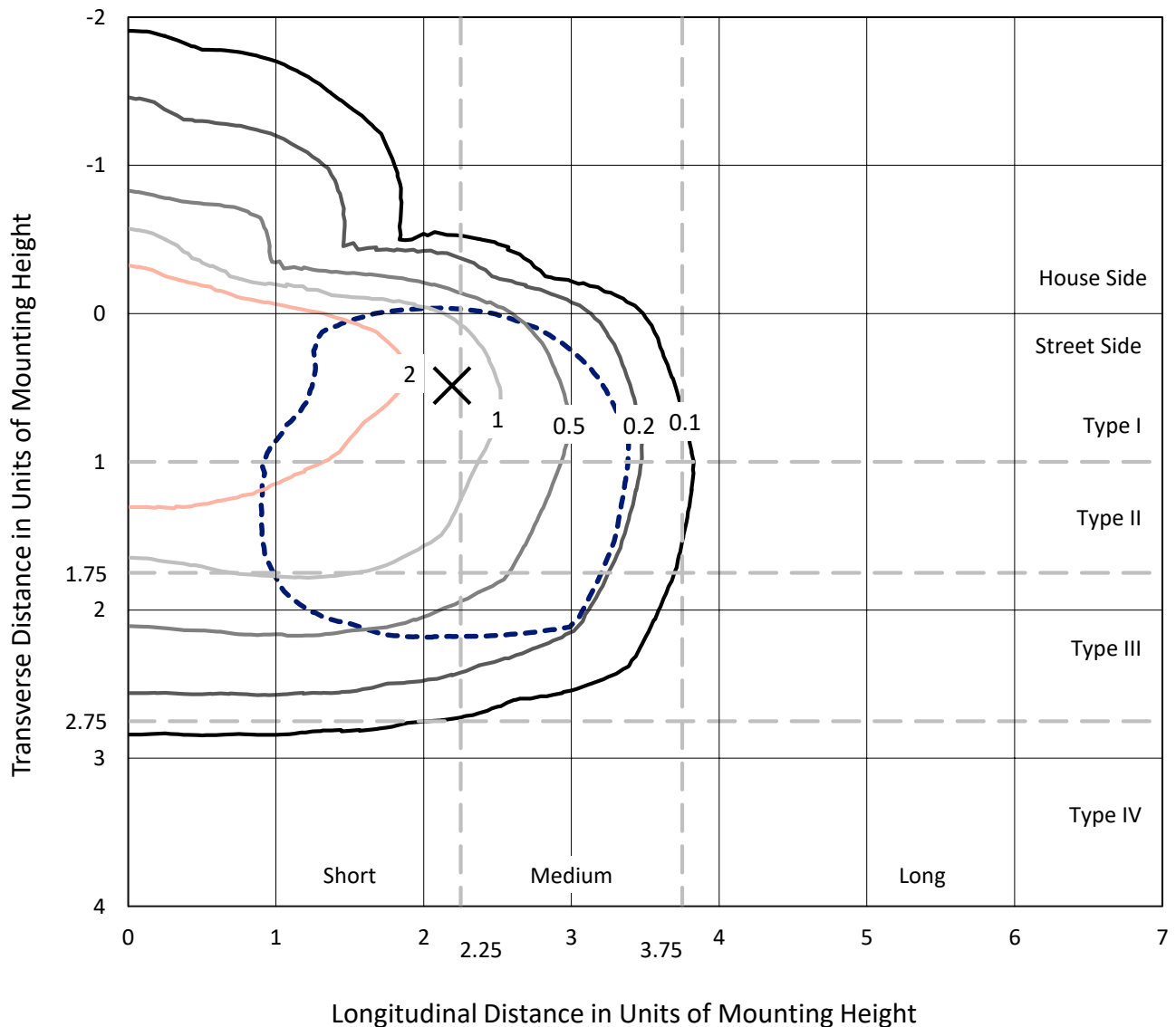


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

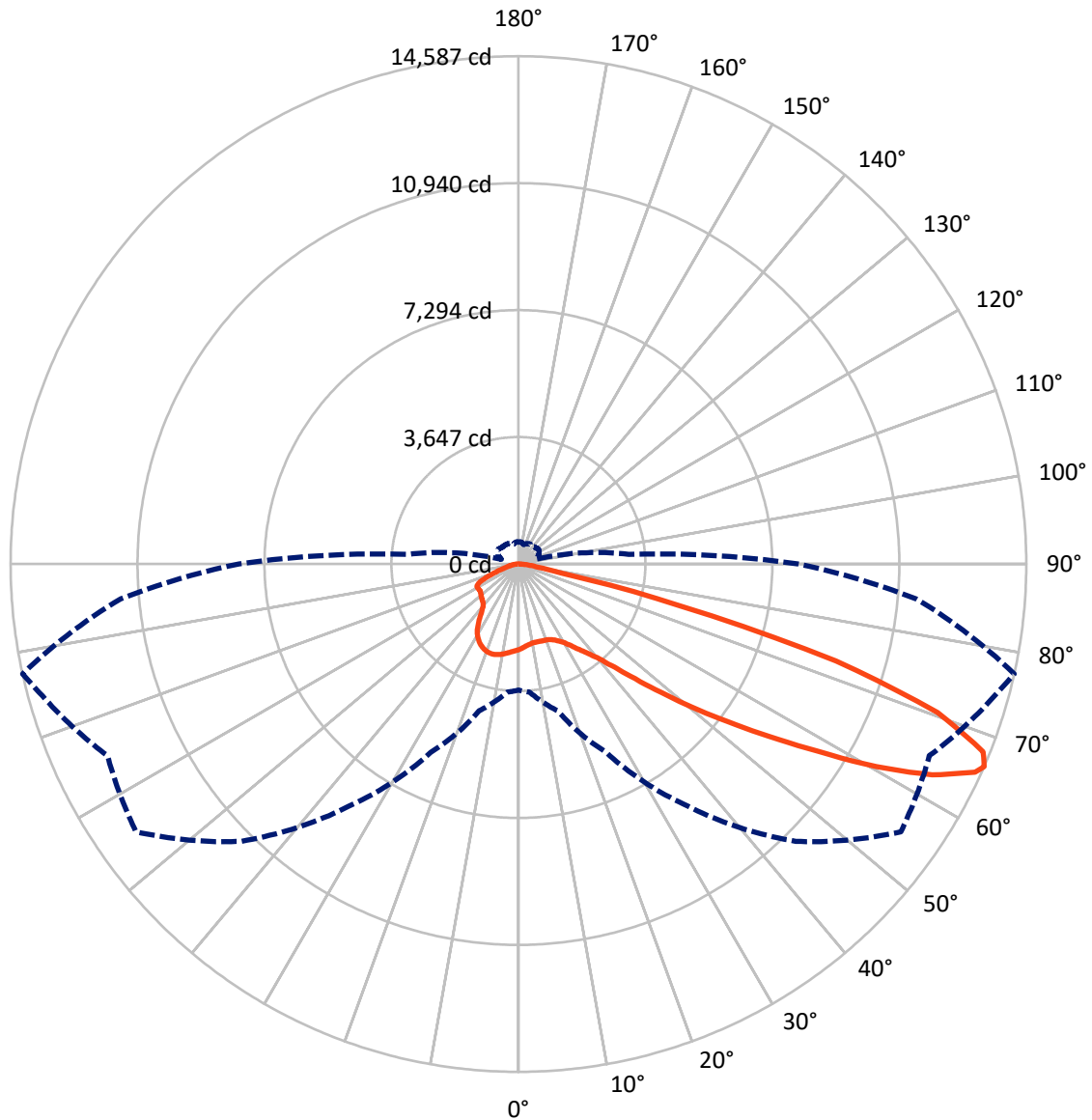


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Full Cutoff

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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	2944.1	0.0	2944.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14288.7	0.0	14288.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	17232.9	0.0	17232.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.3
10°-20°	619.0	3.6
20°-30°	1056.4	6.1
30°-40°	1691.1	9.8
40°-50°	2612.5	15.2
50°-60°	3705.5	21.5
60°-70°	4956.9	28.8
70°-80°	2152.7	12.5
80°-90°	219.5	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°	17232.9	100.0
0°-180°	17232.9	100.0



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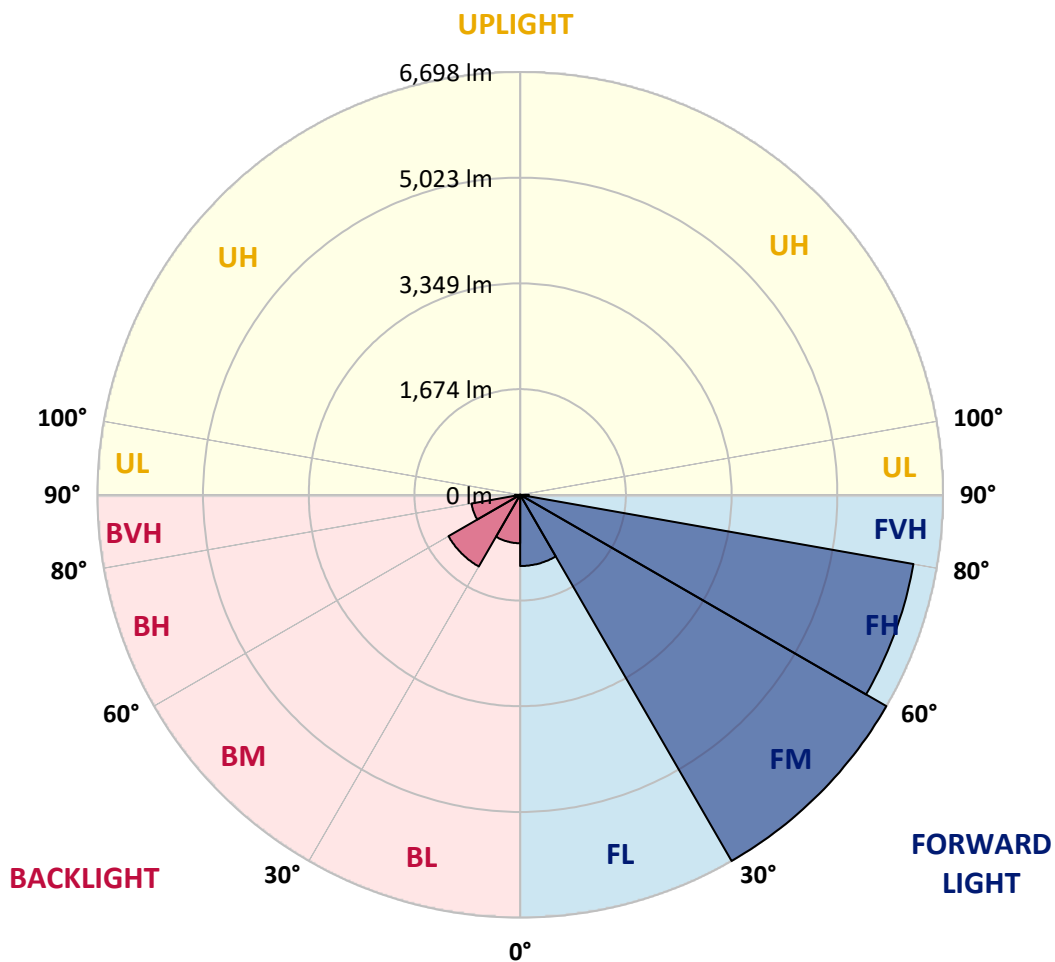
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.0	6.5			
FM	(30°-60°)	6697.6	38.9			
FH	(60°-80°)	6325.5	36.7			G3/7500
FVH	(80°-90°)	137.7	0.8			G2/225
BL	(0°-30°)	766.8	4.4	B2/1000		
BM	(30°-60°)	1311.4	7.6	B2/2500		
BH	(60°-80°)	784.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	81.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7
2.5°	2172.5	2187.1	2199.3	2210.6	2233.5	2270.9	2314.0	2349.1	2399.6	2409.3	2436.3
5°	1972.9	1972.9	1982.6	1999.7	2030.7	2086.9	2145.5	2223.8	2333.6	2359.7	2431.4
7.5°	1876.0	1876.7	1882.6	1897.2	1924.1	1975.4	2039.7	2131.7	2280.6	2323.8	2445.9
10°	1911.9	1903.7	1891.6	1884.1	1888.2	1918.4	1979.4	2082.0	2248.1	2303.6	2478.6
12.5°	2112.2	2096.6	2054.3	1998.2	1944.4	1922.5	1958.2	2058.3	2234.3	2298.7	2521.7
15°	2439.4	2433.0	2354.0	2237.6	2107.2	1998.2	1973.8	2049.5	2235.9	2304.3	2573.0
17.5°	2849.9	2840.9	2736.6	2567.4	2354.7	2142.3	2028.4	2056.8	2241.6	2314.0	2622.7
20°	3264.4	3236.7	3124.2	2922.4	2649.6	2338.5	2118.7	2075.5	2248.9	2324.6	2674.9
22.5°	3573.7	3550.9	3450.0	3253.8	2939.4	2565.6	2240.1	2108.1	2272.5	2355.6	2739.1
25°	3845.6	3847.4	3747.2	3557.5	3232.6	2806.8	2396.3	2195.2	2332.8	2419.1	2827.1
27.5°	4182.0	4162.4	4068.9	3880.7	3522.4	3050.1	2585.2	2314.9	2422.4	2509.5	2942.7
30°	4584.2	4570.3	4462.2	4248.8	3844.0	3311.5	2801.1	2454.1	2538.0	2628.4	3094.1
32.5°	5057.3	5050.8	4938.4	4664.0	4215.3	3619.4	3054.2	2638.1	2710.6	2804.2	3311.5
35°	5612.6	5613.4	5480.6	5150.9	4621.7	3977.5	3341.7	2875.0	2920.7	3018.5	3570.5
37.5°	5954.5	5996.0	5946.4	5610.2	5081.7	4378.2	3714.6	3189.4	3160.1	3258.6	3848.1
40°	6027.8	6078.3	6235.5	6064.5	5596.4	4819.5	4045.2	3491.5	3454.8	3575.3	4205.5
42.5°	5925.3	5995.3	6327.5	6448.0	6142.7	5363.4	4489.8	3940.1	3893.8	4055.8	4650.2
45°	5864.1	5916.2	6300.6	6647.5	6616.6	5978.2	5055.7	4503.7	4486.4	4699.0	5163.1
47.5°	5758.3	5805.6	6175.2	6693.9	6895.0	6541.6	5735.6	5192.5	5225.8	5504.4	5742.1
50°	5815.4	5834.9	6035.3	6575.9	6975.7	6954.5	6495.3	5990.3	6104.4	6452.0	6397.5
52.5°	5807.3	5857.7	6019.0	6382.1	6986.2	7209.3	7243.6	6880.4	7120.5	7519.5	7124.6
55°	4694.9	4787.7	5827.6	6333.2	7023.7	7459.3	7909.5	7818.4	8266.3	8731.2	7945.4
57.5°	4483.3	4541.9	5118.4	6435.7	7222.4	7936.4	8650.6	8850.8	9599.9	10139.8	8945.3
60°	4441.7	4514.2	5111.0	6561.2	7625.4	8714.1	9748.9	10100.7	11222.7	11813.9	10104.8
62.5°	4312.3	4390.3	5062.9	6545.0	8197.8	9789.6	11155.2	11429.6	12761.6	13336.5	11074.6
65°	3901.9	3975.1	4671.4	6281.8	8583.8	10937.8	12819.5	12647.6	13976.5	14408.9	11558.2
66°	3621.0	3692.7	4362.7	5972.6	8494.3	11263.5	13409.0	13024.6	14248.5	14587.1	11463.8
67.5°	3107.1	3163.3	3763.4	5279.6	8017.9	11354.7	13904.9	13308.0	14277.0	14396.6	10923.8
70°	1963.2	1979.4	2445.9	3644.6	6069.4	9847.5	13150.1	12604.5	13099.5	12775.5	9157.9
72.5°	851.8	846.1	1174.2	1854.0	3436.0	6607.7	10637.3	10400.3	10275.8	9536.4	6410.6
75°	473.9	480.5	609.9	860.7	1396.4	3245.5	6958.5	6658.9	5622.3	4797.6	2906.8
77.5°	380.3	389.2	505.7	610.7	626.9	1131.9	3256.1	2649.6	1595.1	1279.9	807.8
80°	300.5	316.7	441.2	475.6	422.7	466.6	1052.0	841.2	631.0	579.0	418.5
82.5°	237.7	249.2	378.6	360.0	295.5	314.2	503.9	491.1	410.3	373.8	241.9
85°	170.9	192.1	311.1	271.2	193.8	211.7	334.7	320.9	235.4	192.1	106.7
87.5°	70.0	91.2	219.8	179.9	108.2	98.5	166.9	157.2	111.6	81.4	52.9
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°	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7	2455.7
2.5°	2453.4	2472.9	2498.0	2513.5	2521.7	2527.4	2536.4	2535.6	2538.0	2538.8	2542.1
5°	2469.6	2502.1	2538.8	2548.6	2548.6	2539.6	2530.6	2516.1	2510.4	2508.6	2510.4
7.5°	2511.9	2547.8	2579.6	2568.2	2543.7	2507.9	2461.4	2420.8	2398.7	2391.5	2389.9
10°	2565.6	2608.9	2621.9	2578.8	2507.1	2420.8	2328.8	2262.0	2223.8	2213.2	2209.9
12.5°	2630.9	2671.5	2653.7	2562.4	2429.7	2290.5	2163.5	2056.8	1977.0	1951.7	1950.1
15°	2702.6	2734.3	2671.5	2511.9	2314.0	2109.0	1882.6	1698.5	1599.3	1567.5	1564.9
17.5°	2769.2	2785.6	2661.0	2423.9	2144.0	1811.7	1511.3	1369.6	1335.4	1343.5	1345.1
20°	2826.2	2826.2	2625.1	2297.9	1876.0	1420.0	1230.3	1227.9	1252.2	1276.8	1281.6
22.5°	2888.9	2851.5	2562.4	2119.6	1496.5	1162.0	1134.2	1157.0	1184.8	1211.6	1215.6
25°	2966.4	2871.8	2475.3	1849.2	1176.6	1055.2	1065.8	1084.6	1098.4	1115.5	1118.0
27.5°	3052.6	2897.9	2360.4	1477.1	1021.1	988.5	996.6	1003.1	1001.5	1008.1	1009.7
30°	3156.0	2928.0	2203.4	1154.6	956.8	931.5	916.8	911.2	911.2	921.8	925.9
32.5°	3294.4	2972.9	1977.8	989.4	925.9	890.8	843.6	822.4	830.6	866.3	874.5
35°	3446.6	3020.8	1672.5	933.1	919.2	872.1	798.8	759.6	760.5	793.9	804.5
37.5°	3612.9	3081.9	1337.8	922.5	934.0	872.9	775.1	721.3	699.4	699.4	703.6
40°	3825.3	3144.5	1082.9	929.8	964.9	882.7	762.9	691.2	629.4	631.0	634.4
42.5°	4102.2	3198.3	946.2	945.3	1002.2	895.7	762.1	651.5	597.6	634.4	667.7
45°	4410.0	3225.3	885.9	959.2	1032.4	903.9	749.0	644.9	601.8	710.7	774.3
47.5°	4764.2	3209.7	852.5	964.2	1039.8	903.9	734.5	660.3	630.3	823.1	897.2
50°	5152.6	3165.0	820.0	954.3	1037.4	902.2	748.3	675.9	640.9	842.7	894.1
52.5°	5609.3	3127.4	785.7	933.1	1020.3	893.3	764.5	669.2	607.4	766.3	802.0
55°	6130.5	3138.0	747.5	902.9	993.3	876.1	758.9	643.2	572.4	674.9	696.9
57.5°	6796.4	3264.4	701.8	864.7	956.8	847.6	738.5	631.0	561.8	612.4	625.3
60°	7540.0	3484.2	644.9	826.5	911.2	802.0	723.0	636.8	566.7	607.4	613.9
62.5°	8085.5	3611.9	596.0	770.2	849.3	751.5	703.6	644.1	579.8	624.5	623.0
65°	8233.7	3401.9	535.0	688.0	765.4	698.6	679.1	652.2	585.4	638.3	631.0
66°	8025.9	3175.6	508.1	649.7	723.0	672.7	666.8	651.5	583.0	640.0	627.7
67.5°	7522.0	2711.4	461.6	593.6	655.5	633.5	647.3	644.1	576.5	638.3	621.3
70°	6134.5	1850.0	395.0	494.2	545.5	557.8	609.9	618.0	555.3	609.9	572.4
72.5°	4286.3	1127.0	349.4	383.4	441.2	475.6	558.6	582.2	526.9	532.5	496.8
75°	2071.4	598.5	316.7	297.2	342.9	397.3	496.8	533.4	482.0	445.4	432.4
77.5°	645.7	365.6	268.8	239.4	268.8	320.9	415.2	467.4	429.1	372.9	368.0
80°	346.8	268.8	206.8	192.1	212.4	251.5	326.5	390.0	368.8	334.7	298.9
82.5°	228.8	174.2	153.2	148.9	162.1	192.1	242.6	323.3	323.3	286.6	208.4
85°	118.0	106.7	105.0	105.0	113.1	127.7	165.3	249.2	265.4	151.5	125.5
87.5°	58.6	61.1	57.0	59.5	63.5	62.7	79.1	125.5	149.7	91.9	76.5
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)