

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: P269275

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16956.1 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

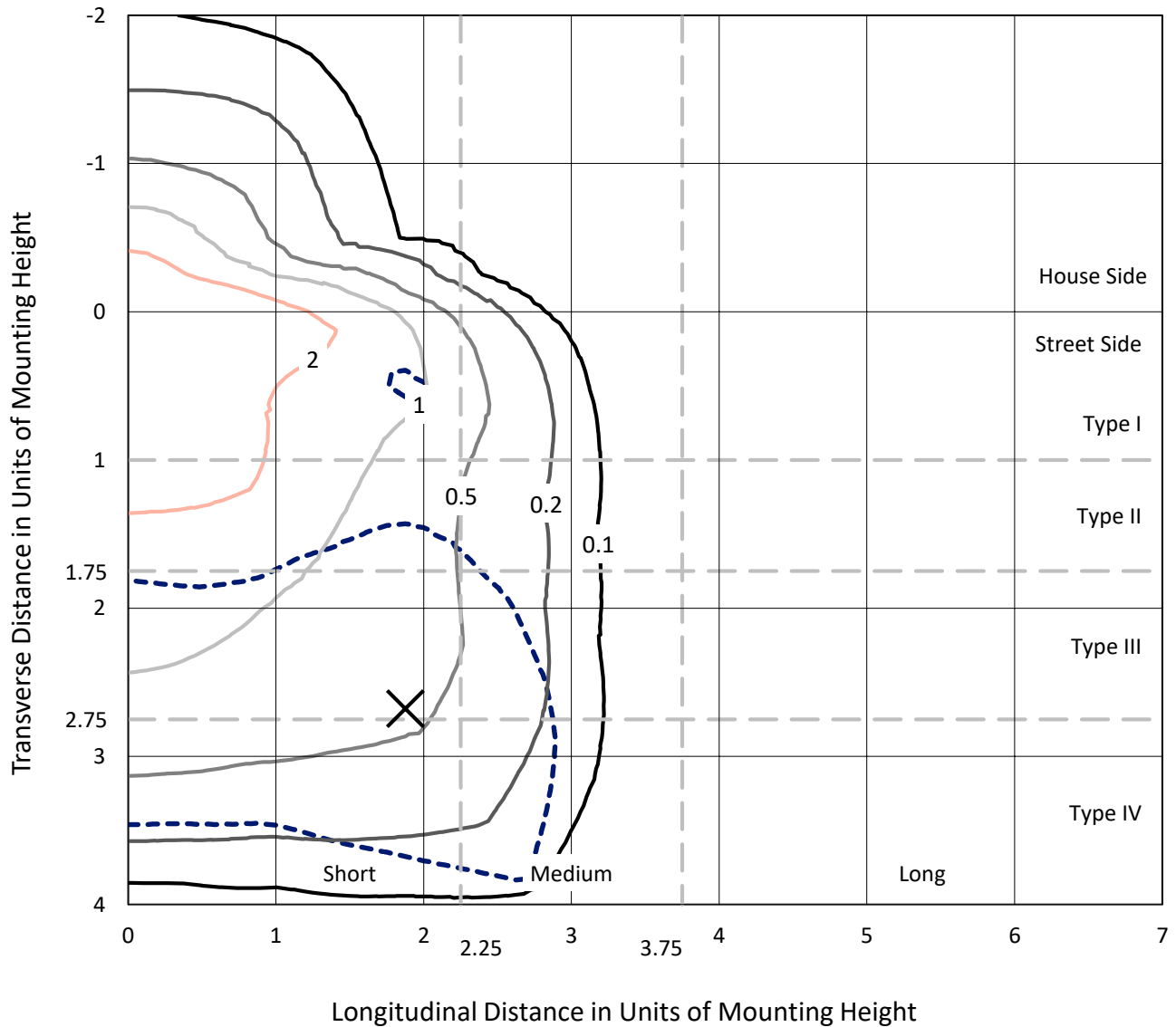


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

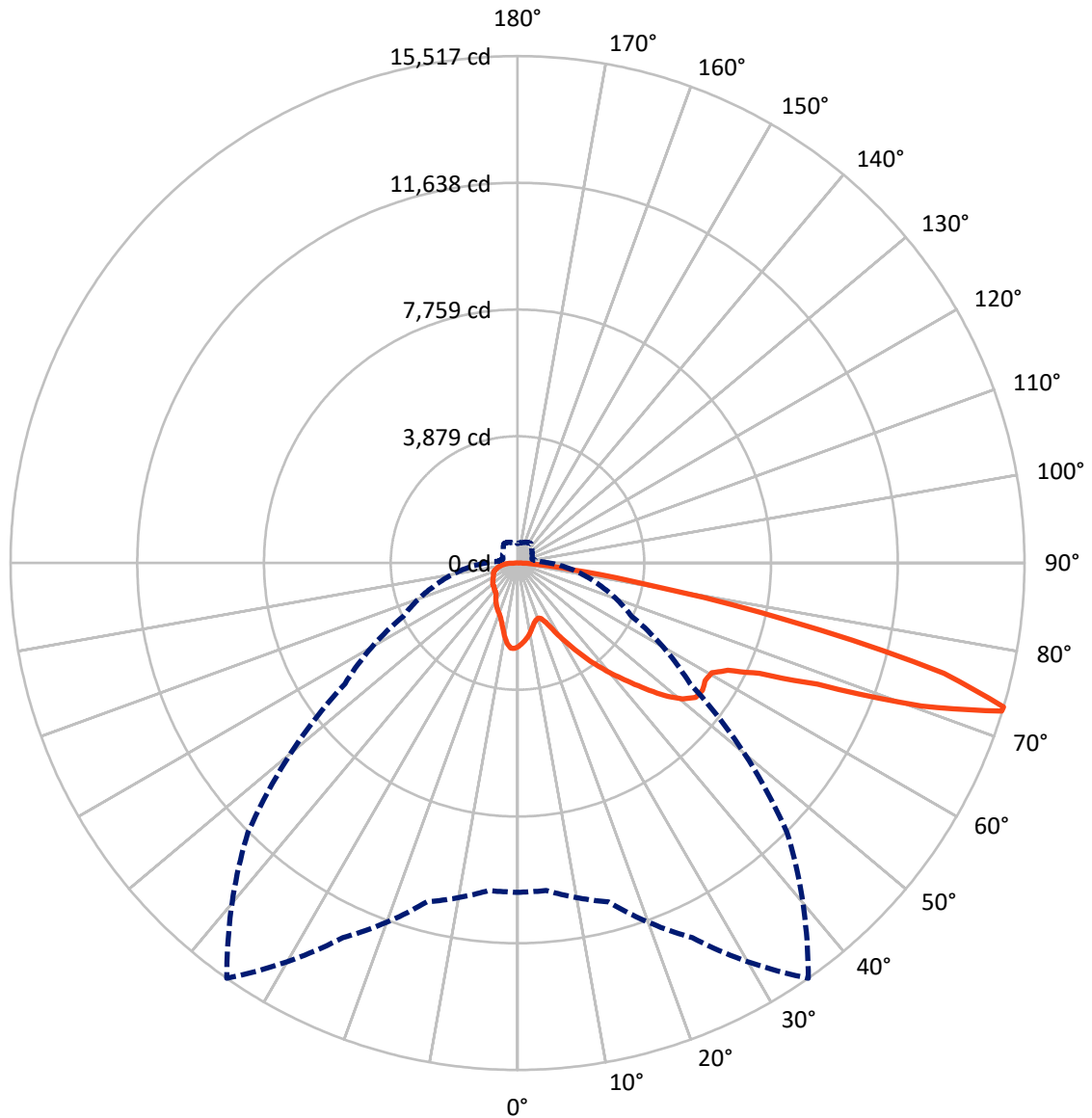


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3234.0	0.0	3234.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	13722.1	0.0	13722.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	16956.1	0.0	16956.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.4
10°-20°	578.2	3.4
20°-30°	934.8	5.5
30°-40°	1567.5	9.2
40°-50°	2416.3	14.3
50°-60°	3241.7	19.1
60°-70°	4318.6	25.5
70°-80°	3293.8	19.4
80°-90°	373.3	2.2
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°	16956.1	100.0
0°-180°	16956.1	100.0



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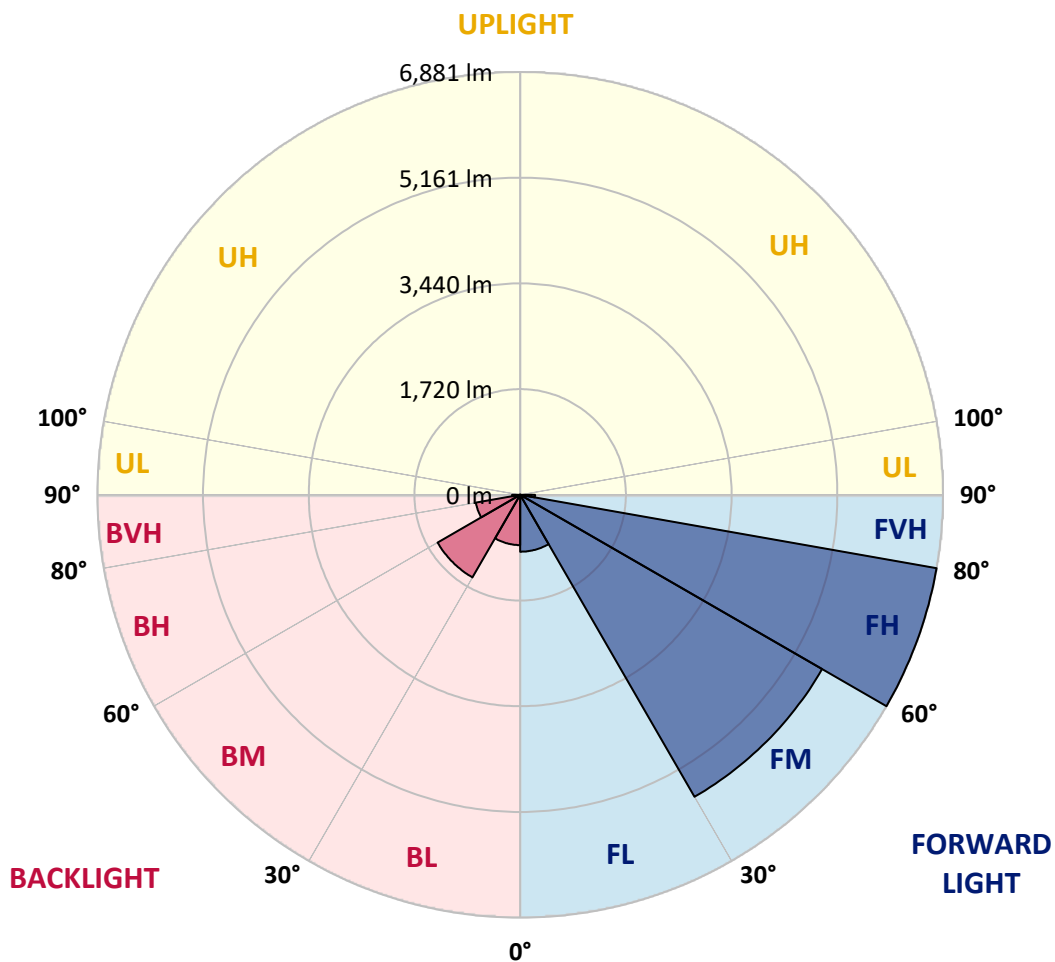
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	926.4	5.5			
FM	(30°-60°)	5673.6	33.5			
FH	(60°-80°)	6880.8	40.6			G3/7500
FVH	(80°-90°)	241.3	1.4			G3/500
BL	(0°-30°)	818.4	4.8	B2/1000		
BM	(30°-60°)	1551.9	9.2	B2/2500		
BH	(60°-80°)	731.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	132.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2458.2	2463.2	2457.5	2464.7	2476.9	2490.0	2498.9	2512.0	2526.7	2547.0	2551.8
5°	2342.6	2350.0	2350.0	2362.9	2386.5	2407.7	2427.3	2448.5	2479.4	2514.4	2528.3
7.5°	2215.6	2219.6	2227.0	2246.5	2280.7	2310.9	2338.6	2372.8	2415.1	2461.4	2485.9
10°	2062.5	2068.2	2079.5	2107.2	2153.6	2195.2	2235.2	2282.4	2336.1	2394.0	2424.9
12.5°	1954.3	1952.6	1957.4	1977.8	2018.5	2069.1	2126.8	2187.2	2252.9	2320.6	2358.1
15°	1917.5	1908.5	1889.9	1885.1	1907.0	1957.4	2024.2	2098.4	2177.3	2258.8	2305.1
17.5°	1940.3	1924.9	1873.5	1836.1	1832.9	1871.2	1942.0	2025.0	2116.2	2215.6	2273.4
20°	2083.7	2047.1	1920.8	1833.7	1803.5	1822.3	1884.1	1972.0	2079.5	2211.4	2285.6
22.5°	2426.5	2372.8	2104.9	1942.9	1841.0	1818.2	1864.6	1958.2	2083.7	2262.0	2356.4
25°	2925.6	2849.1	2420.8	2214.9	2004.7	1883.3	1893.9	1990.0	2141.5	2379.3	2493.2
27.5°	3319.6	3270.0	2833.7	2598.3	2302.7	2059.3	1989.2	2069.9	2259.5	2571.4	2687.9
30°	3554.2	3524.1	3275.0	3033.0	2683.0	2339.4	2171.7	2219.6	2444.4	2837.7	2933.8
32.5°	3826.2	3808.3	3686.1	3463.9	3093.4	2707.4	2460.6	2443.6	2692.0	3157.7	3201.6
35°	4107.9	4102.2	4030.5	3870.9	3533.8	3192.7	2844.3	2728.5	2961.4	3489.8	3462.2
37.5°	4370.2	4360.4	4318.8	4225.9	3994.8	3713.9	3235.1	3020.9	3252.1	3807.5	3684.5
40°	4853.0	4776.4	4633.8	4563.8	4460.4	4152.7	3545.3	3293.6	3553.3	4110.4	3876.6
42.5°	5441.7	5317.1	5051.6	4955.5	4940.9	4498.7	3757.0	3558.2	3857.1	4410.8	4065.5
45°	5905.0	5787.7	5558.9	5437.6	5491.2	4812.2	3969.5	3840.9	4169.8	4726.0	4260.2
47.5°	6399.3	6215.3	5912.3	5948.9	6066.2	5108.7	4186.1	4144.5	4512.5	5078.5	4502.0
50°	6417.1	6276.3	6143.6	6362.5	6545.1	5381.3	4457.2	4462.9	4932.0	5522.3	4823.5
52.5°	6045.1	6015.0	6225.8	6570.3	6833.1	5597.2	4765.8	4791.9	5468.5	6031.9	5177.0
55°	5914.7	5880.6	6123.9	6497.7	6872.4	5775.6	5100.4	5147.6	6117.5	6569.3	5521.4
57.5°	6232.4	6156.5	6172.9	6463.6	6777.1	5970.9	5465.3	5560.6	6822.6	7039.2	5743.0
60°	7119.8	6957.8	6650.1	6642.6	6828.3	6264.1	5887.0	6003.6	7555.5	7264.0	5656.5
62.5°	8364.8	8202.9	7626.3	7250.8	7223.2	6747.7	6404.9	6435.8	7978.8	6959.3	5129.9
65°	9712.5	9567.5	8923.5	8393.4	8137.7	7548.9	7006.7	6628.9	7840.4	6121.6	4208.1
67.5°	11348.3	11192.7	10639.0	10149.7	9903.8	8841.9	7429.3	6444.0	6961.9	4742.2	3025.0
70°	12492.3	12333.5	12115.4	12511.9	13113.5	10707.4	7483.8	5692.4	5199.7	3152.0	1820.7
72.5°	10999.7	10925.6	11323.9	12993.9	15500.2	11839.2	6764.9	4144.5	3020.0	1673.4	1053.6
73°	10078.1	10061.7	10740.9	12656.0	15517.2	11665.0	6449.7	3852.2	2590.2	1480.2	963.3
75°	4550.9	4682.0	6170.4	9666.8	13481.7	9612.3	4539.4	2209.9	1463.2	1022.7	727.1
77.5°	1093.5	1139.1	1930.5	4590.8	8513.9	5728.3	2056.8	1092.7	935.6	722.2	530.9
80°	465.7	481.2	743.3	1696.1	4008.5	2306.8	947.8	731.9	647.3	503.9	372.1
82.5°	258.9	275.2	421.8	769.5	1617.8	786.6	578.1	509.7	425.8	303.6	241.9
85°	146.6	155.5	246.8	429.8	685.5	315.9	346.0	338.8	240.1	156.3	118.8
87.5°	69.2	74.9	118.8	199.6	268.8	123.7	175.9	193.8	150.6	95.3	62.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2557.6	2572.2	2589.4	2598.3	2606.4	2616.3	2625.9	2625.9	2627.6	2628.4
5°	2539.7	2569.8	2596.6	2608.0	2610.6	2610.6	2608.0	2595.1	2583.6	2588.6
7.5°	2502.1	2546.2	2569.0	2564.9	2533.9	2498.1	2468.1	2431.4	2412.7	2409.3
10°	2448.5	2498.9	2502.9	2462.3	2385.8	2309.3	2245.8	2183.8	2154.6	2147.2
12.5°	2389.0	2435.5	2409.3	2325.5	2202.6	2091.1	2010.3	1947.6	1919.9	1912.8
15°	2341.0	2372.8	2306.8	2174.8	2020.2	1902.2	1835.3	1789.0	1769.4	1763.6
17.5°	2315.7	2322.3	2201.7	2023.4	1859.0	1760.4	1718.8	1696.9	1689.6	1685.5
20°	2328.0	2282.4	2101.6	1882.6	1727.0	1657.8	1648.0	1642.3	1640.8	1638.2
22.5°	2389.0	2270.1	2009.6	1749.0	1611.4	1581.2	1589.5	1588.7	1586.9	1585.4
25°	2498.1	2280.7	1919.9	1622.0	1514.5	1508.1	1522.6	1522.6	1516.1	1516.1
27.5°	2642.3	2302.7	1819.8	1501.4	1426.6	1427.3	1438.7	1435.5	1428.1	1423.4
30°	2818.2	2316.5	1702.6	1393.2	1344.4	1341.1	1344.4	1330.5	1308.6	1306.9
32.5°	2998.1	2299.4	1566.6	1297.2	1257.2	1249.9	1247.4	1228.0	1202.7	1195.4
35°	3161.0	2236.8	1428.1	1220.5	1174.2	1157.8	1169.2	1162.8	1139.9	1134.3
37.5°	3279.8	2120.3	1303.6	1153.0	1114.6	1110.7	1118.0	1120.5	1093.5	1087.8
40°	3359.7	1962.3	1196.9	1096.0	1103.3	1087.8	1063.5	1046.3	1038.3	1035.7
42.5°	3423.9	1797.9	1107.4	1069.2	1105.8	1061.0	1008.1	980.4	995.1	1001.5
45°	3498.0	1637.5	1032.5	1035.7	1093.5	1030.0	969.8	943.0	948.6	950.2
47.5°	3599.8	1442.0	951.8	981.9	1052.9	1008.8	946.2	907.8	881.0	868.8
50°	3740.7	1210.7	868.0	921.8	1012.8	993.3	909.5	868.8	819.2	807.8
52.5°	3838.4	995.1	798.9	871.3	977.0	962.4	880.2	827.2	775.1	765.4
55°	3785.5	826.5	738.5	815.0	929.8	924.1	855.7	784.9	744.2	736.2
57.5°	3520.8	719.8	692.1	762.1	872.1	891.6	823.1	749.0	719.8	714.2
60°	3016.0	653.1	662.8	726.3	824.9	859.0	790.7	729.6	710.0	706.0
62.5°	2340.2	608.2	640.9	700.3	788.3	836.2	772.7	727.1	719.8	715.0
65°	1676.5	572.4	617.1	674.2	754.8	815.0	766.3	723.9	725.6	721.3
67.5°	1139.1	540.7	588.7	645.0	722.2	796.3	757.2	712.4	732.8	727.9
70°	797.2	509.7	555.3	607.4	681.5	770.2	741.0	695.4	693.8	674.2
72.5°	622.0	469.0	509.7	555.3	629.4	733.6	708.5	657.1	630.3	609.9
73°	593.6	459.3	498.3	544.0	618.0	724.8	699.4	646.5	616.3	597.6
75°	491.1	417.0	452.7	493.3	569.2	682.4	655.5	598.5	560.3	548.9
77.5°	385.9	356.6	390.9	427.5	501.6	620.5	590.4	535.7	514.5	504.8
80°	285.8	295.6	325.6	358.2	434.8	554.6	527.7	473.0	567.5	544.0
82.5°	201.1	223.9	251.6	280.9	364.8	490.1	457.5	401.5	415.2	345.3
85°	118.8	146.6	172.7	197.8	263.1	406.4	377.7	319.9	262.1	250.0
87.5°	69.2	81.4	88.8	114.9	180.7	306.1	266.3	237.0	136.0	91.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)