

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: P269193

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269193
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-03-LED-E1-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 15883.3 lumens
Efficiency: N/A
Efficacy: 95.7 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

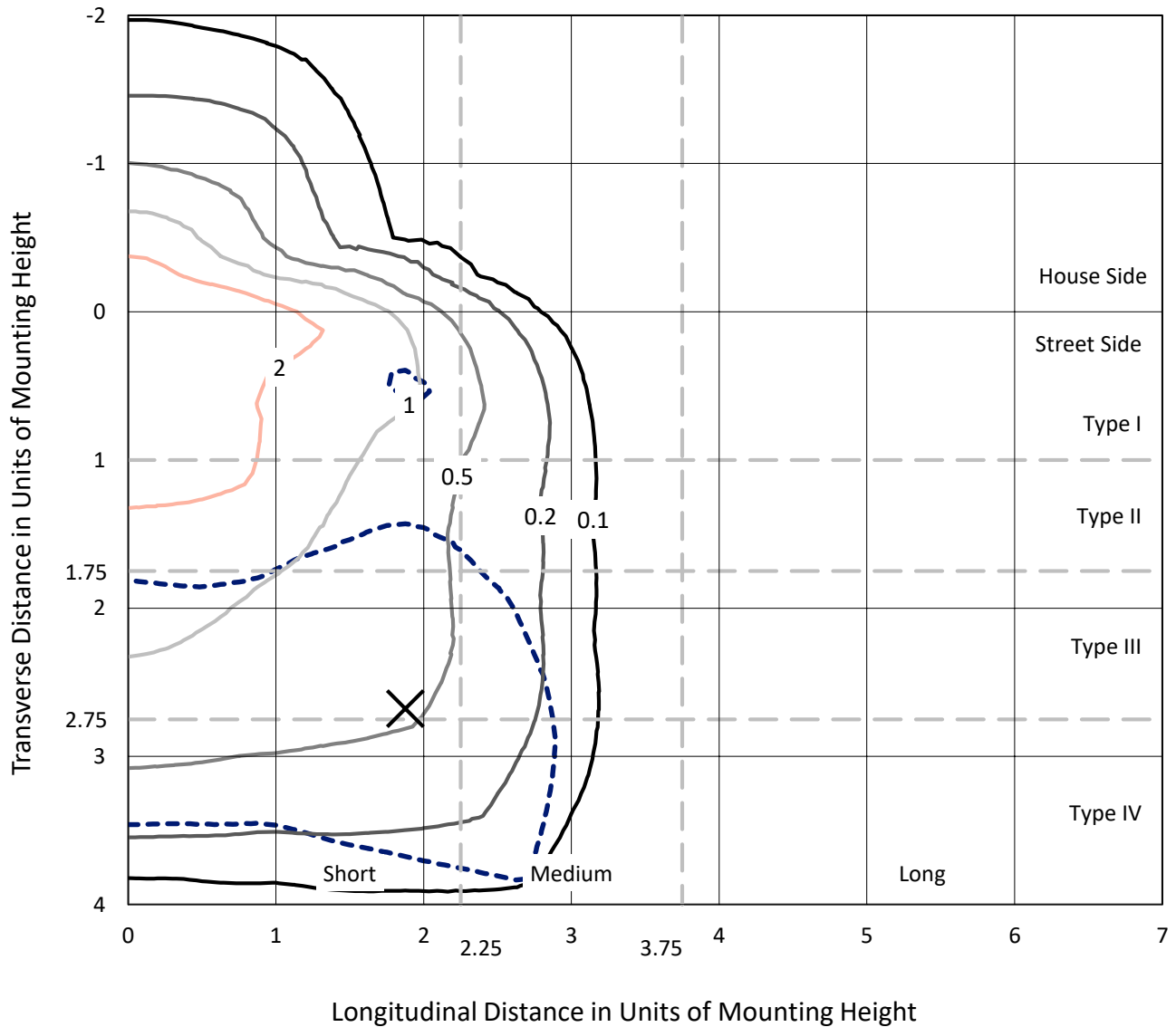
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

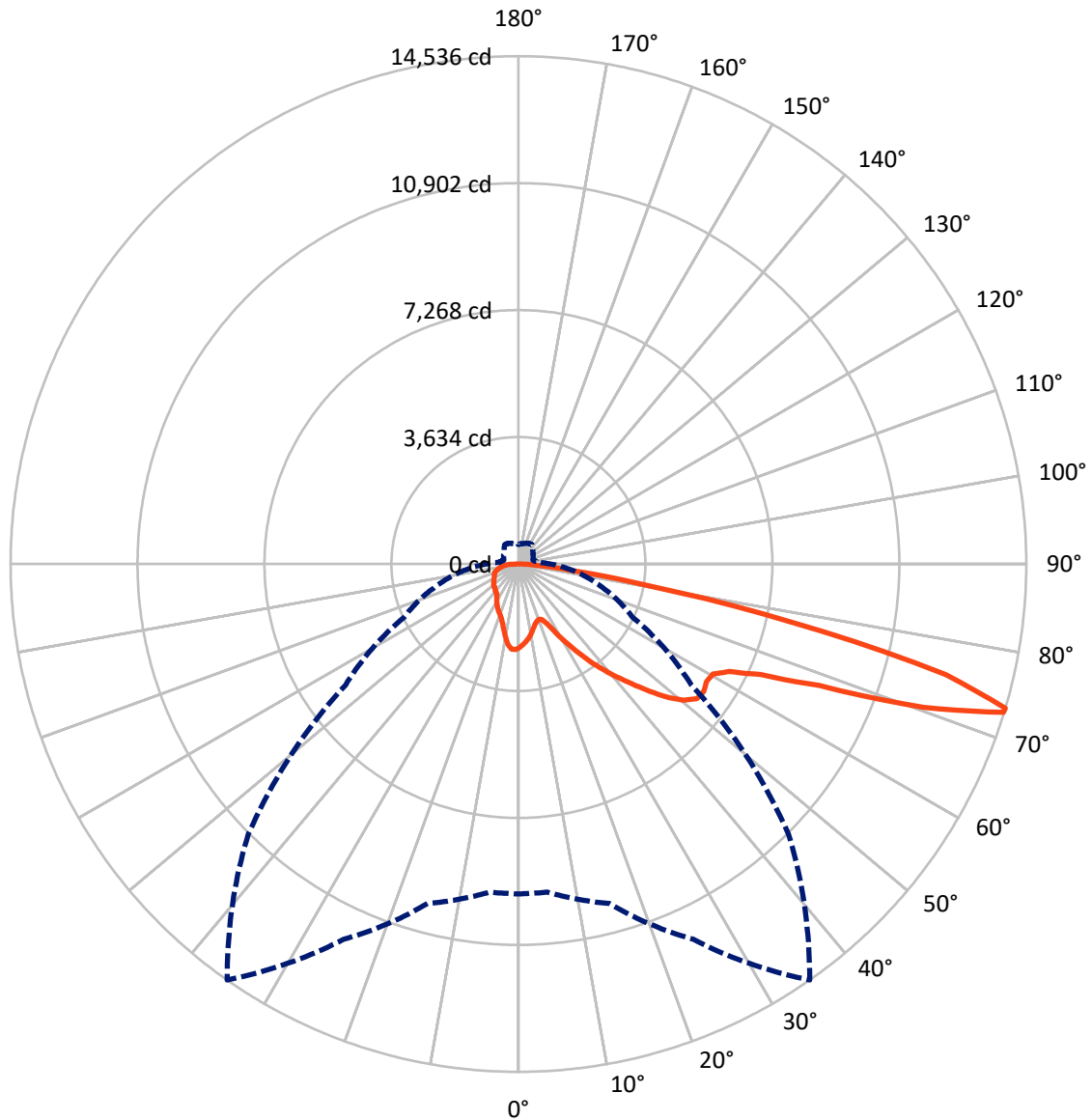
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3029.4	0.0	3029.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12853.9	0.0	12853.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	15883.3	0.0	15883.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.4
10°-20°	541.7	3.4
20°-30°	875.7	5.5
30°-40°	1468.4	9.2
40°-50°	2263.4	14.3
50°-60°	3036.6	19.1
60°-70°	4045.4	25.5
70°-80°	3085.4	19.4
80°-90°	349.7	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°	15883.3	100.0
0°-180°	15883.3	100.0



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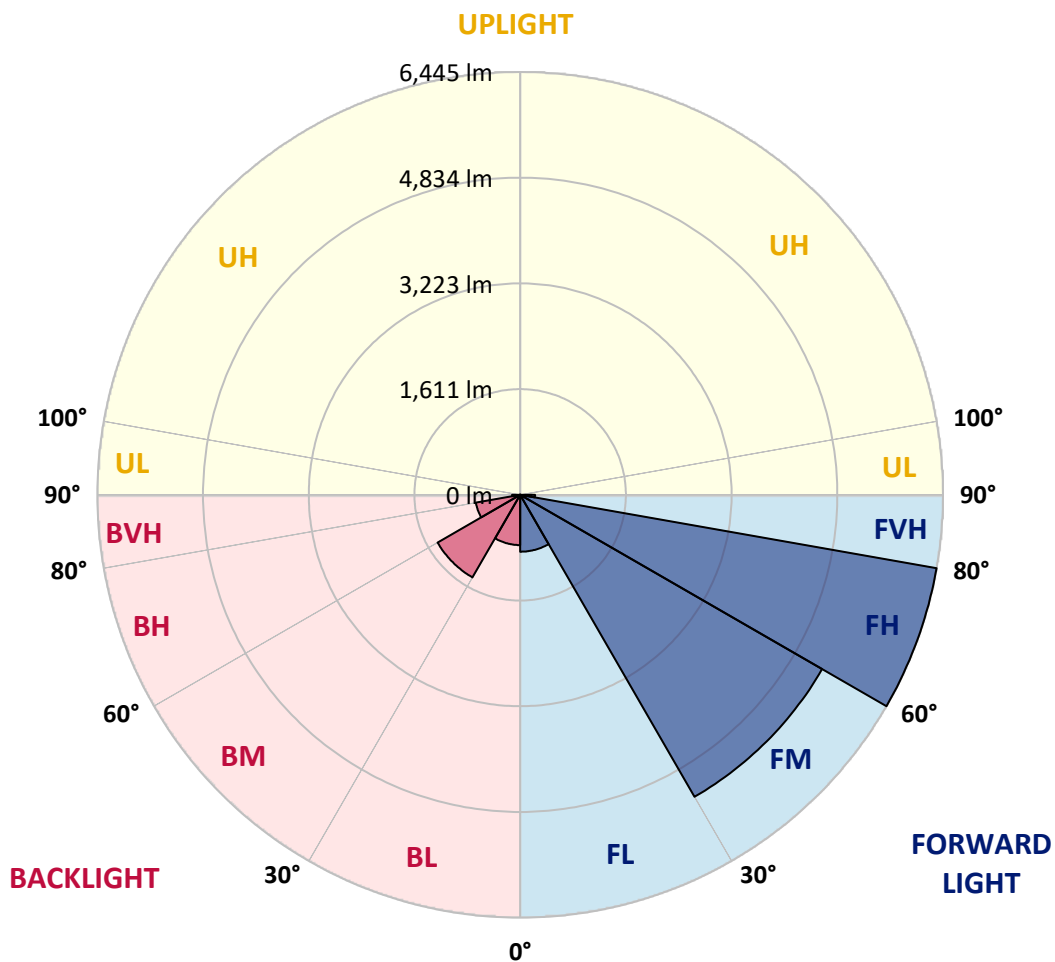
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.8	5.5			
FM	(30°-60°)	5314.7	33.5			
FH	(60°-80°)	6445.4	40.6			G3/7500
FVH	(80°-90°)	226.1	1.4			G3/500
BL	(0°-30°)	766.6	4.8	B2/1000		
BM	(30°-60°)	1453.8	9.2	B2/2500		
BH	(60°-80°)	685.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	123.7	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°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2302.7	2307.2	2301.9	2308.9	2320.2	2332.4	2340.9	2353.0	2366.8	2385.9	2390.4
5°	2194.4	2201.2	2201.2	2213.5	2235.6	2255.5	2273.7	2293.6	2322.6	2355.4	2368.3
7.5°	2075.4	2079.2	2086.0	2104.4	2136.3	2164.6	2190.5	2222.6	2262.3	2305.8	2328.6
10°	1932.1	1937.4	1948.1	1973.9	2017.5	2056.3	2093.7	2138.0	2188.4	2242.4	2271.5
12.5°	1830.6	1829.0	1833.6	1852.7	1890.8	1938.2	1992.4	2048.8	2110.5	2173.8	2208.9
15°	1796.3	1787.8	1770.3	1765.8	1786.3	1833.6	1896.1	1965.6	2039.5	2115.9	2159.3
17.5°	1817.6	1803.1	1755.1	1720.0	1716.9	1752.8	1819.2	1897.0	1982.4	2075.4	2129.5
20°	1951.8	1917.5	1799.2	1717.6	1689.4	1707.0	1765.0	1847.4	1948.1	2071.6	2141.0
22.5°	2272.9	2222.6	1971.7	1819.8	1724.6	1703.1	1746.7	1834.3	1951.8	2118.9	2207.3
25°	2740.5	2668.9	2267.6	2074.6	1877.8	1764.2	1774.2	1864.2	2006.1	2228.8	2335.6
27.5°	3109.8	3063.2	2654.3	2433.9	2157.0	1929.0	1863.4	1938.9	2116.5	2408.7	2517.8
30°	3329.4	3301.1	3067.7	2841.2	2513.2	2191.3	2034.2	2079.2	2289.7	2658.2	2748.2
32.5°	3584.1	3567.3	3452.9	3244.7	2897.7	2536.2	2305.1	2289.1	2521.6	2957.8	2999.1
35°	3848.0	3842.7	3775.5	3626.1	3310.3	2990.6	2664.3	2555.9	2774.1	3269.1	3243.2
37.5°	4093.7	4084.5	4045.5	3958.7	3742.0	3478.9	3030.3	2829.8	3046.4	3566.6	3451.4
40°	4546.0	4474.2	4340.7	4275.2	4178.2	3890.0	3320.9	3085.3	3328.6	3850.2	3631.4
42.5°	5097.4	4980.7	4732.0	4642.0	4628.2	4214.0	3519.3	3333.3	3613.2	4131.8	3808.4
45°	5531.4	5421.5	5207.3	5093.6	5144.0	4507.8	3718.4	3597.8	3906.0	4426.9	3990.6
47.5°	5994.4	5821.9	5538.2	5572.5	5682.4	4785.5	3921.2	3882.4	4227.2	4757.2	4217.2
50°	6011.2	5879.1	5754.8	5960.1	6130.9	5040.8	4175.2	4180.5	4620.0	5172.9	4518.5
52.5°	5662.6	5634.3	5831.8	6154.6	6401.0	5243.0	4464.2	4488.7	5122.6	5650.3	4849.5
55°	5540.6	5508.4	5736.5	6086.6	6437.6	5410.1	4777.7	4822.0	5730.5	6153.7	5172.1
57.5°	5837.9	5767.1	5782.3	6054.7	6348.2	5593.1	5119.5	5208.7	6391.0	6593.9	5379.6
60°	6669.3	6517.7	6229.2	6222.4	6396.3	5867.8	5514.5	5623.7	7077.4	6804.4	5298.7
62.5°	7835.6	7683.8	7143.9	6792.2	6766.3	6320.8	5999.7	6028.6	7474.1	6519.1	4805.3
65°	9097.9	8962.2	8358.9	7862.2	7622.7	7071.4	6563.3	6209.4	7344.5	5734.3	3941.9
67.5°	10630.4	10484.6	9965.9	9507.5	9277.2	8282.6	6959.2	6036.3	6521.4	4442.2	2833.6
70°	11702.0	11553.2	11348.7	11720.2	12284.0	10030.0	7010.4	5332.2	4870.8	2952.5	1705.5
72.5°	10303.7	10234.4	10607.4	12171.8	14519.5	11090.2	6336.9	3882.4	2829.0	1567.5	987.0
73°	9440.4	9425.1	10061.2	11855.2	14535.6	10927.1	6041.6	3608.5	2426.2	1386.7	902.3
75°	4262.9	4385.7	5780.1	9055.3	12628.6	9004.2	4252.2	2070.1	1370.6	958.0	681.2
77.5°	1024.3	1067.0	1808.5	4300.4	7975.2	5365.8	1926.7	1023.6	876.3	676.6	497.3
80°	436.2	450.8	696.4	1588.8	3754.9	2160.9	887.9	685.6	606.4	472.1	348.5
82.5°	242.5	257.9	395.2	720.8	1515.6	736.8	541.6	477.4	398.8	284.6	226.6
85°	137.4	145.6	231.1	402.7	642.2	295.9	324.2	317.3	225.0	146.5	111.4
87.5°	64.9	70.2	111.4	186.8	251.7	115.9	164.7	181.5	141.2	89.2	58.0
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°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2395.8	2409.6	2425.6	2433.9	2441.6	2450.7	2459.7	2459.7	2461.4	2462.2
5°	2379.0	2407.2	2432.4	2443.0	2445.4	2445.4	2443.0	2430.9	2420.2	2424.7
7.5°	2343.9	2385.1	2406.4	2402.6	2373.6	2340.1	2311.9	2277.6	2260.0	2256.9
10°	2293.6	2340.9	2344.7	2306.5	2234.9	2163.1	2103.7	2045.7	2018.2	2011.3
12.5°	2237.9	2281.3	2256.9	2178.4	2063.1	1958.8	1883.1	1824.5	1798.5	1791.7
15°	2192.9	2222.6	2160.9	2037.3	1892.4	1781.8	1719.1	1675.8	1657.5	1652.2
17.5°	2169.2	2175.3	2062.5	1895.5	1741.4	1649.1	1610.1	1589.6	1582.6	1579.0
20°	2180.6	2138.0	1968.6	1763.5	1617.8	1552.9	1543.7	1538.4	1536.9	1534.7
22.5°	2237.9	2126.5	1882.5	1638.4	1509.4	1481.2	1488.9	1488.1	1486.5	1485.1
25°	2340.1	2136.3	1798.5	1519.4	1418.8	1412.6	1426.2	1426.2	1420.2	1420.2
27.5°	2475.1	2157.0	1704.8	1406.4	1336.3	1337.0	1347.7	1344.8	1337.8	1333.3
30°	2639.8	2169.9	1594.9	1305.1	1259.2	1256.2	1259.2	1246.3	1225.6	1224.2
32.5°	2808.5	2154.0	1467.6	1215.0	1177.7	1170.9	1168.5	1150.2	1126.6	1119.6
35°	2961.0	2095.2	1337.8	1143.4	1099.9	1084.7	1095.4	1089.1	1067.8	1062.4
37.5°	3072.4	1986.2	1221.2	1080.0	1044.2	1040.3	1047.2	1049.5	1024.3	1018.9
40°	3147.0	1838.2	1121.3	1026.7	1033.5	1018.9	996.1	980.1	972.4	970.2
42.5°	3207.3	1684.1	1037.4	1001.5	1035.7	993.9	944.3	918.3	932.1	938.2
45°	3276.7	1533.9	967.1	970.2	1024.3	964.9	908.5	883.3	888.7	890.1
47.5°	3372.1	1350.8	891.7	919.9	986.2	945.0	886.3	850.4	825.4	813.9
50°	3504.0	1134.2	813.1	863.5	948.8	930.6	852.0	813.9	767.3	756.6
52.5°	3595.6	932.1	748.3	816.1	915.4	901.5	824.6	775.0	726.1	716.9
55°	3546.0	774.2	691.9	763.5	871.0	865.6	801.6	735.4	697.2	689.4
57.5°	3298.0	674.3	648.3	714.0	816.9	835.2	771.1	701.8	674.3	668.9
60°	2825.2	611.7	620.9	680.3	772.6	804.7	740.7	683.4	665.1	661.3
62.5°	2192.1	569.7	600.2	655.9	738.3	783.3	723.9	681.2	674.3	669.6
65°	1570.4	536.2	578.1	631.6	707.1	763.5	717.7	678.1	679.6	675.7
67.5°	1067.0	506.5	551.5	604.1	676.6	746.0	709.3	667.4	686.5	682.0
70°	746.8	477.4	520.2	568.9	638.4	721.6	694.1	651.5	649.8	631.6
72.5°	582.7	439.4	477.4	520.2	589.6	687.3	663.6	615.5	590.4	571.3
73°	556.1	430.2	466.8	509.5	578.9	678.8	655.3	605.5	577.4	559.9
75°	459.9	390.6	424.1	462.2	533.1	639.1	614.0	560.6	524.8	514.1
77.5°	361.6	334.1	366.1	400.5	469.9	581.3	552.9	502.0	482.0	472.9
80°	267.8	276.9	305.2	335.5	407.3	519.4	494.2	443.1	531.6	509.5
82.5°	188.5	209.8	235.6	263.2	341.7	459.2	428.6	376.0	389.0	323.4
85°	111.4	137.4	161.8	185.3	246.3	380.6	353.9	299.8	245.5	234.2
87.5°	64.9	76.3	83.2	107.5	169.3	286.7	249.4	221.9	127.4	86.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)