

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: P269267

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16857.9 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

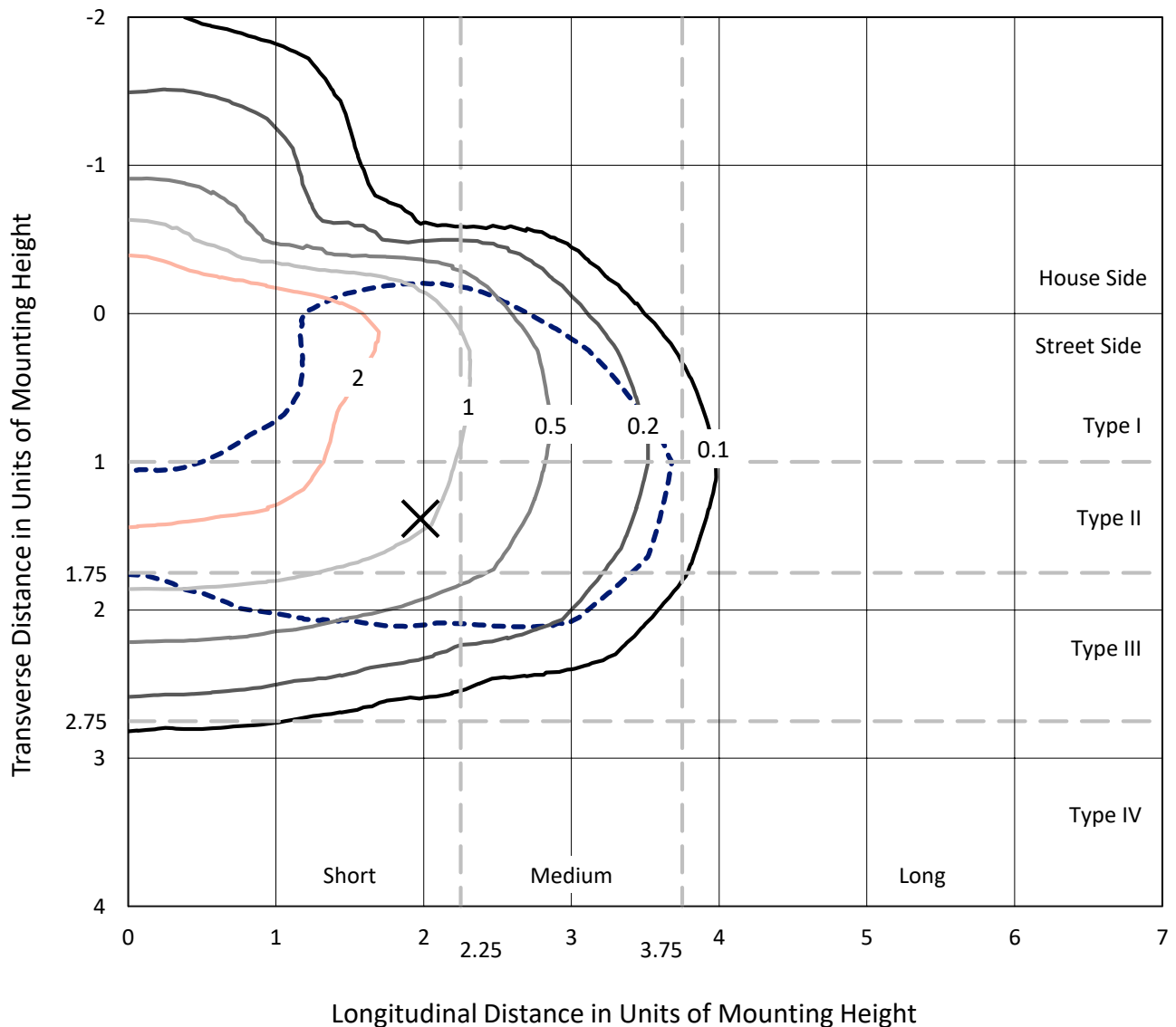
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

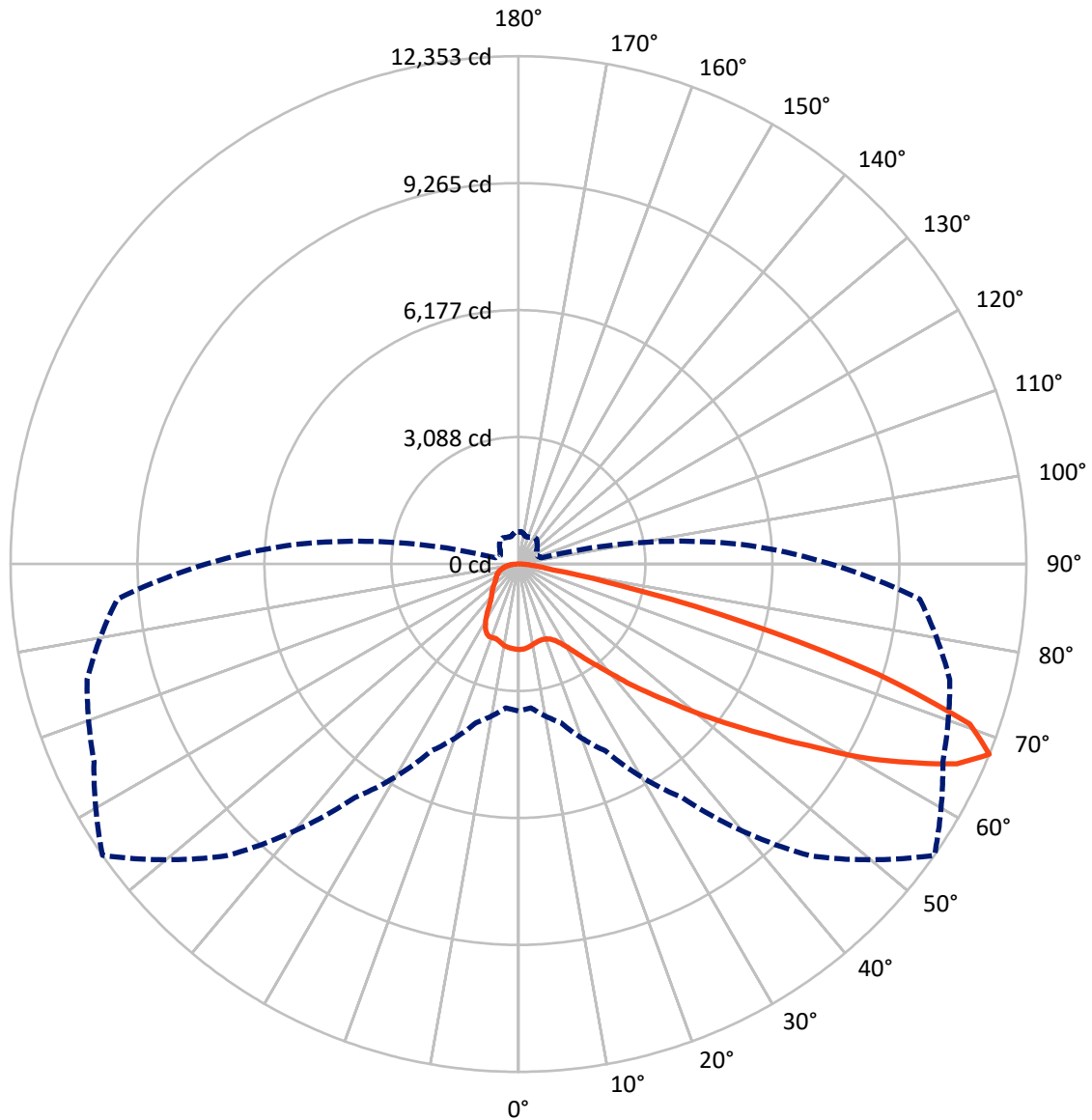
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3641.7	0.0	3641.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13216.2	0.0	13216.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	16857.9	0.0	16857.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.2
10°-20°	549.5	3.3
20°-30°	920.5	5.5
30°-40°	1513.7	9.0
40°-50°	2548.1	15.1
50°-60°	4010.5	23.8
60°-70°	4786.1	28.4
70°-80°	2055.2	12.2
80°-90°	280.2	1.7
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°	16857.9	100.0
0°-180°	16857.9	100.0



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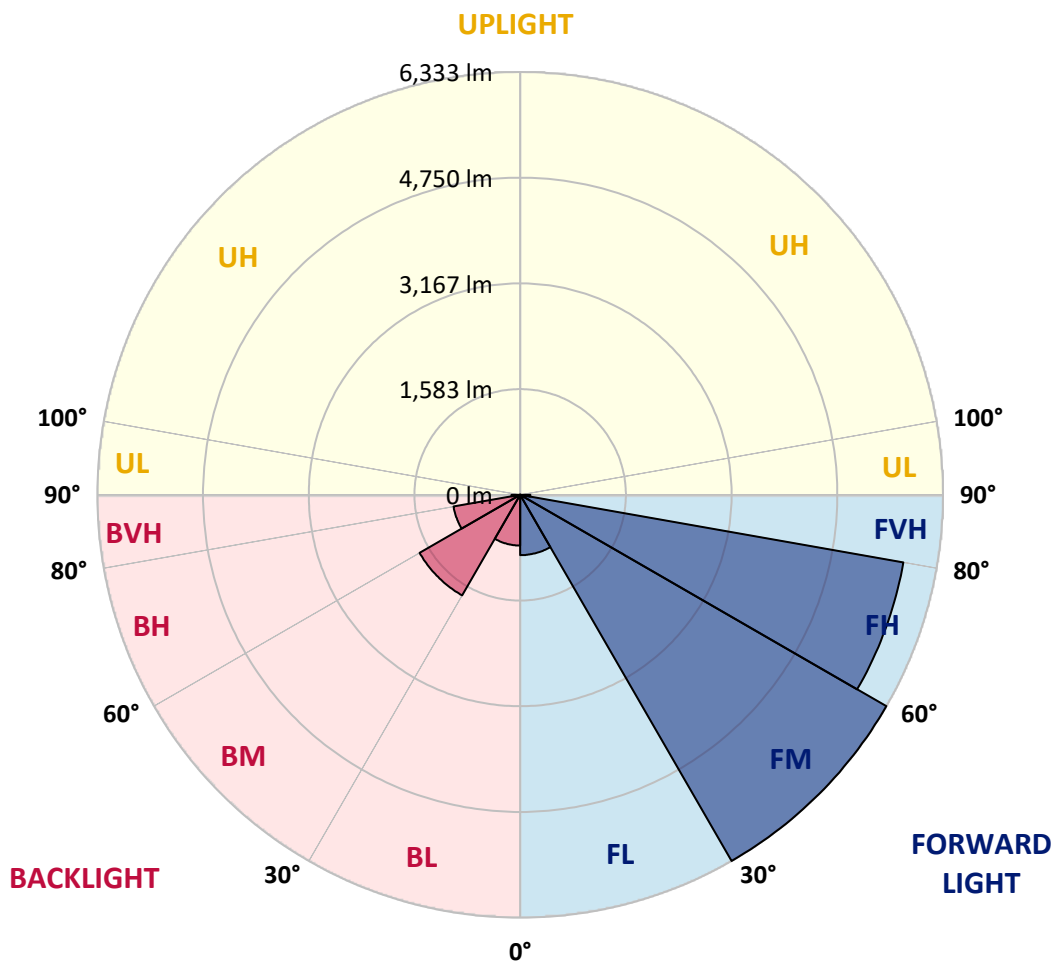
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.6	5.4			
FM (30°-60°)	6333.1	37.6			
FH (60°-80°)	5827.9	34.6			G3/7500
FVH (80°-90°)	151.7	0.9			G2/225
BL (0°-30°)	760.5	4.5	B2/1000		
BM (30°-60°)	1739.2	10.3	B2/2500		
BH (60°-80°)	1013.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	128.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2060.8	2061.7	2063.2	2069.9	2075.5	2073.8	2074.6	2071.4	2070.7	2065.7	2070.7
5°	2034.8	2037.3	2038.1	2048.7	2055.1	2056.8	2054.3	2050.3	2045.4	2040.5	2042.9
7.5°	1975.4	1981.9	1982.6	1997.3	2007.9	2021.7	2022.5	2023.4	2020.9	2017.8	2022.5
10°	1938.0	1939.5	1938.7	1949.3	1957.4	1972.9	1981.9	1997.3	2003.8	2005.5	2008.7
12.5°	1935.5	1933.8	1931.4	1931.4	1928.9	1935.5	1951.7	1973.8	1989.1	1994.1	1998.2
15°	1961.4	1960.7	1952.6	1940.3	1924.9	1919.9	1933.8	1958.2	1978.5	1989.1	1993.2
17.5°	2020.2	2015.3	2002.2	1974.6	1941.1	1928.1	1929.7	1950.1	1973.8	1987.6	1991.6
20°	2127.6	2127.6	2100.0	2047.9	1988.4	1957.4	1942.8	1955.0	1977.8	1996.6	2002.2
22.5°	2313.2	2314.9	2268.5	2183.1	2082.8	2016.9	1980.3	1977.8	2004.7	2025.9	2032.3
25°	2576.2	2569.7	2504.7	2382.5	2230.2	2121.1	2057.6	2042.9	2065.7	2089.4	2097.5
27.5°	2882.4	2858.9	2781.4	2634.1	2437.0	2277.5	2179.7	2156.1	2178.1	2205.0	2213.2
30°	3185.3	3160.9	3068.9	2907.6	2688.6	2486.7	2346.6	2308.4	2339.4	2377.6	2382.5
32.5°	3488.2	3488.2	3385.6	3197.5	2958.9	2736.6	2569.0	2523.3	2574.6	2621.1	2631.7
35°	3850.6	3852.2	3752.8	3526.4	3270.0	3034.7	2849.9	2816.5	2893.8	2926.4	2951.7
37.5°	4296.0	4304.9	4177.1	3903.4	3622.5	3375.0	3155.1	3109.7	3186.9	3275.7	3357.1
40°	4777.1	4788.5	4647.7	4310.5	4029.6	3770.7	3533.0	3450.7	3579.4	3748.7	3853.8
42.5°	5236.4	5295.0	5159.1	4812.2	4510.1	4242.2	4001.2	3881.4	4042.7	4298.4	4389.6
45°	5900.0	5942.4	5705.4	5391.1	5107.0	4807.3	4488.1	4361.9	4587.5	4909.9	4928.6
47.5°	6342.2	6310.5	6190.0	5994.5	5814.5	5534.4	5054.0	4915.5	5215.2	5594.6	5489.6
50°	6577.5	6587.2	6570.9	6582.3	6588.9	6413.0	5747.7	5558.1	5915.5	6374.0	6132.1
52.5°	6797.4	6732.2	6785.9	7053.0	7375.4	7310.2	6502.6	6304.8	6666.2	7238.6	6811.2
55°	6792.4	6693.1	6868.1	7339.6	8039.0	8113.9	7350.2	7122.2	7460.2	8166.0	7530.9
57.5°	6552.2	6557.1	6826.6	7443.9	8501.5	8869.5	8333.8	7991.9	8302.0	9105.7	8188.1
60°	6221.7	6266.4	6654.9	7426.7	8872.0	9489.2	9540.4	8929.1	9126.9	9959.9	8732.0
62.5°	5688.2	5735.6	6271.2	7249.2	8815.8	10086.1	10631.6	9992.3	9989.2	10477.7	8891.6
65°	4847.3	4833.4	5395.9	6585.7	8344.4	10527.3	11715.3	10911.7	10638.9	10485.8	8570.8
67.5°	3574.5	3512.6	3995.5	5015.7	6935.8	10033.1	12353.0	11390.5	10860.4	9796.1	7590.4
70°	1854.8	1792.9	2183.8	2928.8	4561.5	7830.5	11647.0	11142.9	10371.0	8211.6	5946.4
72.5°	793.1	782.6	941.2	1284.8	2206.5	4516.6	9132.6	9644.7	8898.9	6118.3	4088.4
75°	533.4	530.1	589.5	700.3	992.5	1832.8	5715.1	6846.2	6510.6	3793.5	2299.4
77.5°	418.5	414.5	449.4	503.2	643.2	723.0	2536.4	3675.4	3401.9	1651.3	1006.5
80°	327.3	324.1	346.0	375.3	462.4	456.0	834.5	1462.4	1131.9	632.6	489.3
82.5°	258.2	258.2	276.0	276.9	328.2	311.1	435.6	644.1	565.0	368.8	299.7
85°	236.2	236.2	254.8	206.8	214.2	196.2	270.3	381.9	358.2	151.5	130.3
87.5°	118.8	115.6	214.2	183.3	116.4	104.3	132.0	184.8	198.6	83.8	65.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8	2078.8
2.5°	2068.9	2068.2	2069.9	2070.7	2077.2	2086.1	2090.1	2095.8	2099.1	2097.5
5°	2044.5	2046.2	2052.6	2057.6	2068.9	2083.7	2091.9	2098.4	2104.0	2101.6
7.5°	2024.2	2028.4	2038.1	2042.1	2048.7	2052.6	2051.9	2054.3	2059.3	2053.5
10°	2012.8	2017.8	2025.0	2019.3	2003.8	1981.9	1961.4	1950.8	1954.3	1950.1
12.5°	2001.5	2007.9	2002.2	1975.4	1932.3	1903.7	1888.2	1889.9	1897.2	1898.7
15°	1994.9	1997.3	1972.9	1922.5	1878.4	1874.5	1882.6	1881.0	1881.7	1881.7
17.5°	1994.9	1988.4	1942.8	1892.3	1873.5	1866.3	1840.9	1809.2	1795.4	1790.5
20°	2005.5	1988.4	1933.1	1899.6	1859.0	1796.3	1729.4	1670.8	1644.7	1637.4
22.5°	2037.3	2007.9	1960.7	1902.9	1787.3	1682.3	1576.3	1506.4	1459.1	1451.0
25°	2101.6	2068.9	2015.3	1859.8	1673.3	1523.4	1403.0	1324.8	1277.6	1271.0
27.5°	2214.0	2192.8	2044.5	1764.5	1521.8	1361.4	1249.8	1189.6	1154.6	1152.2
30°	2383.4	2372.8	2029.9	1623.5	1335.4	1204.3	1150.5	1115.5	1089.5	1088.7
32.5°	2653.7	2568.2	1981.9	1451.8	1165.2	1092.7	1070.7	1049.6	1029.2	1029.2
35°	3001.2	2726.0	1890.7	1267.8	1061.7	1030.8	1003.1	969.8	943.0	941.2
37.5°	3410.1	2823.8	1727.0	1119.6	1012.8	989.4	948.6	898.9	851.8	843.6
40°	3822.8	2853.0	1496.5	1028.4	981.9	947.8	898.1	839.5	793.9	791.4
42.5°	4201.6	2797.0	1252.2	965.7	951.0	905.4	853.3	801.2	765.4	764.5
45°	4519.1	2651.2	1047.2	906.3	918.4	867.1	820.7	778.4	750.8	745.1
47.5°	4817.9	2445.1	902.9	843.6	885.9	846.1	806.9	767.1	740.2	736.2
50°	5164.7	2222.9	802.0	782.6	857.4	838.7	818.4	776.8	731.9	727.1
52.5°	5584.9	2030.7	723.0	728.7	835.5	848.4	847.6	804.5	726.3	719.8
55°	6053.9	1817.5	663.6	684.8	826.5	866.3	854.9	830.6	731.2	721.3
57.5°	6515.5	1568.3	622.0	651.5	813.4	864.7	820.0	784.8	742.5	728.7
60°	6861.7	1233.6	590.4	622.0	784.8	837.8	781.6	735.3	740.2	729.6
62.5°	6884.4	953.6	552.1	596.8	741.8	811.0	756.5	713.3	750.8	740.9
65°	6479.7	720.6	515.4	566.7	695.4	793.9	731.9	701.0	772.7	762.1
67.5°	5455.4	579.8	484.5	535.7	648.9	758.1	710.0	689.7	792.2	773.5
70°	3938.4	494.2	454.4	498.3	607.4	717.3	690.4	669.2	739.3	710.0
72.5°	2424.9	428.3	420.1	448.7	575.6	674.9	661.2	631.0	666.1	642.5
75°	1210.7	371.3	381.9	399.7	530.9	626.9	612.4	582.2	587.0	582.2
77.5°	579.8	317.6	337.1	351.0	473.0	572.4	556.9	526.0	520.3	521.0
80°	367.2	265.4	284.1	293.9	422.7	508.9	493.3	462.4	527.7	489.3
82.5°	229.5	215.8	220.7	238.6	368.0	443.0	422.7	395.0	475.6	376.2
85°	127.0	150.6	157.2	172.7	283.3	370.6	350.1	315.1	282.5	277.7
87.5°	75.7	89.7	91.9	103.5	190.5	267.9	237.0	224.8	186.5	185.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)