

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: P193490

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-AFL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6717 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

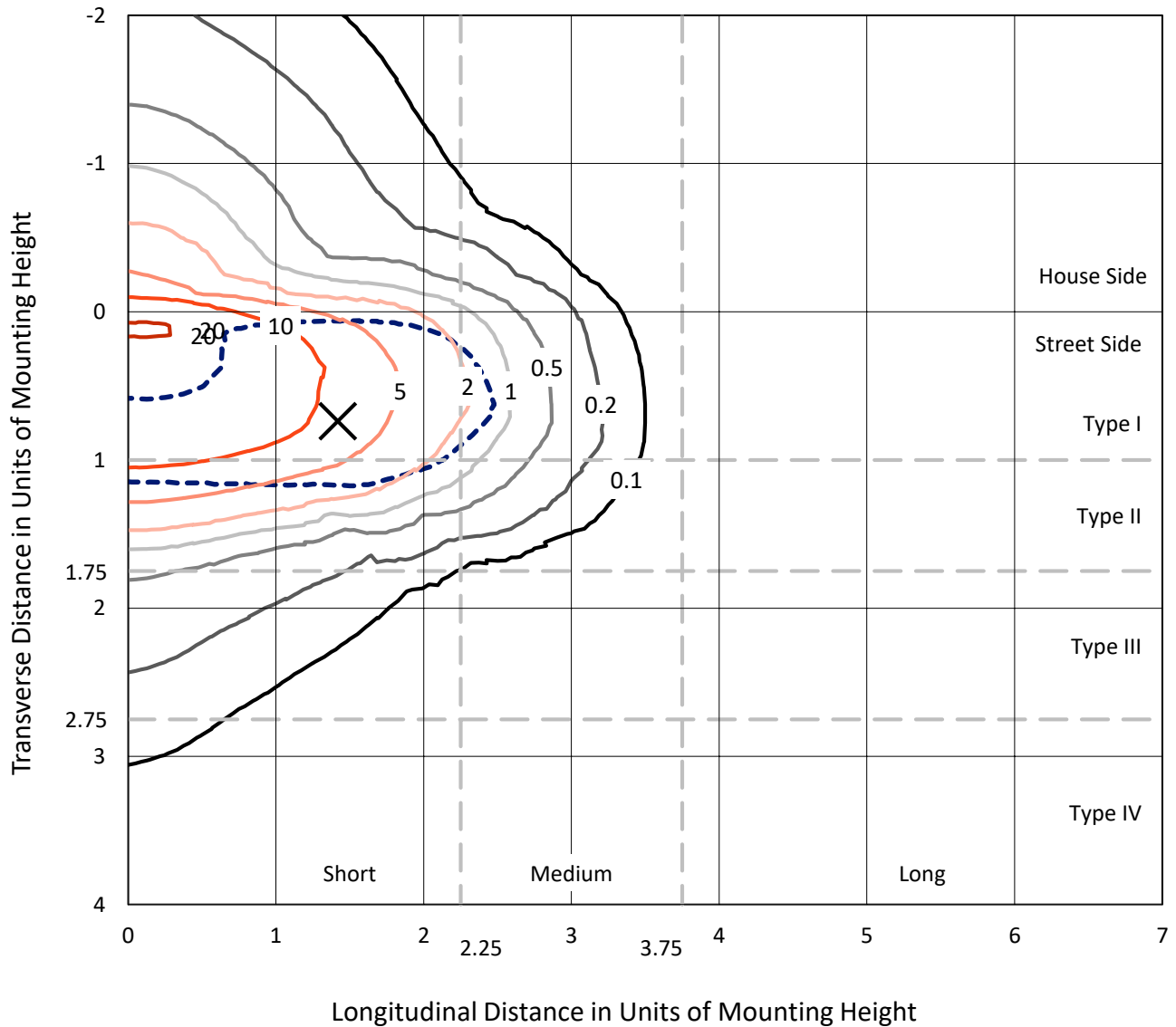
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

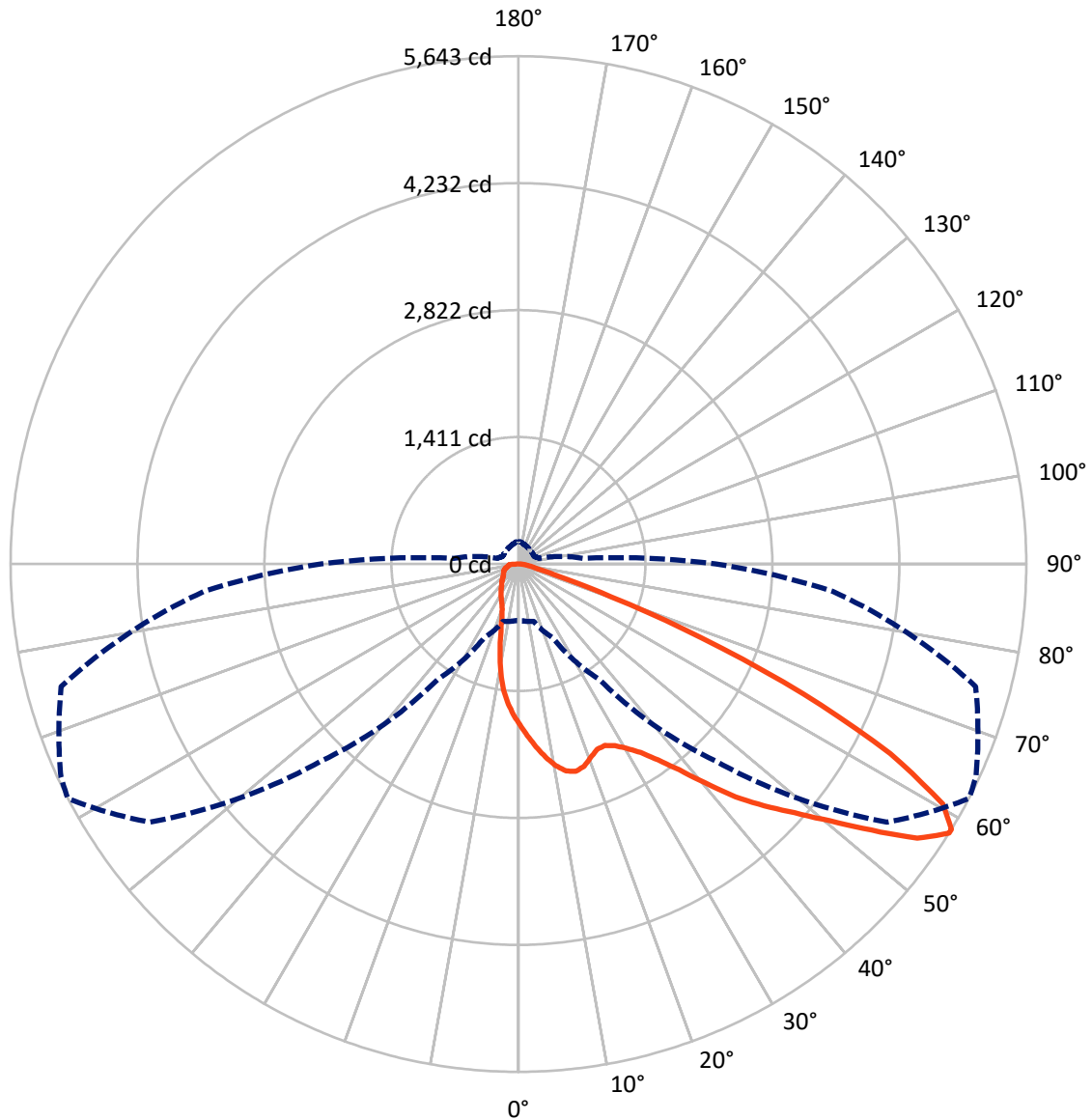
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1024.4	0.0	1024.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5692.6	0.0	5692.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	6717.0	0.0	6717.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	2.4
10°-20°	407.9	6.1
20°-30°	659.4	9.8
30°-40°	1046.8	15.6
40°-50°	1531.6	22.8
50°-60°	1601.9	23.8
60°-70°	946.4	14.1
70°-80°	266.6	4.0
80°-90°	96.8	1.4
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°	6717.0	100.0
0°-180°	6717.0	100.0



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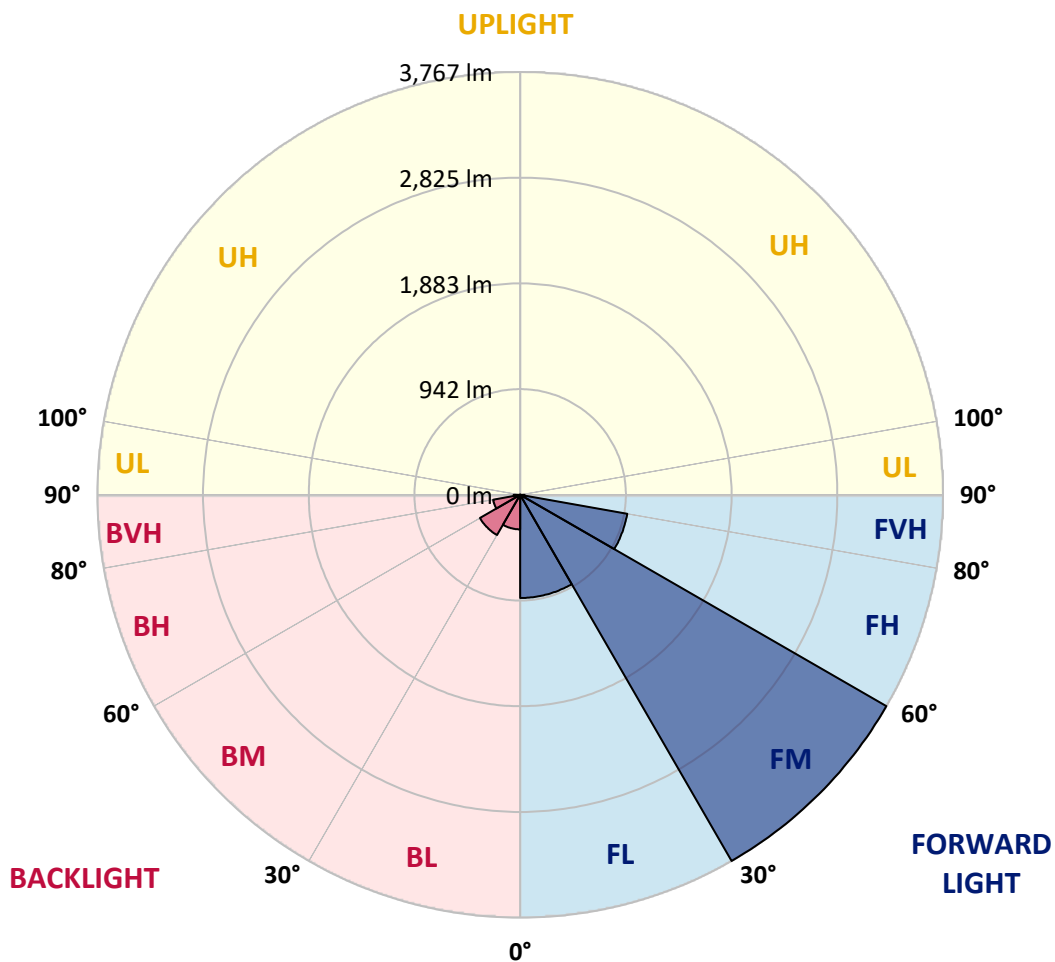
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.0	13.7			
FM (30°-60°)	3766.9	56.1			
FH (60°-80°)	968.6	14.4			G1/1800
FVH (80°-90°)	38.2	0.6			G1/100
BL (0°-30°)	307.9	4.6	B1/500		
BM (30°-60°)	413.5	6.2	B1/1000		
BH (60°-80°)	244.4	3.6	B1/500		G1/500
BVH (80°-90°)	58.6	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2
2.5°	2038.9	2022.4	2012.0	2002.8	1990.8	1965.2	1930.7	1908.9	1897.8	1860.1	1815.5
5°	2238.8	2224.2	2213.4	2201.1	2179.6	2139.4	2083.8	2039.5	2017.7	1942.4	1853.2
7.5°	2191.9	2198.0	2216.6	2249.2	2277.0	2271.6	2222.0	2165.7	2136.9	2032.2	1896.8
10°	1909.8	1920.2	1952.5	2028.7	2152.1	2278.6	2317.2	2278.3	2249.2	2121.1	1941.8
12.5°	1853.2	1852.9	1855.4	1875.6	1949.0	2127.1	2320.4	2359.6	2342.2	2205.9	1987.6
15°	1876.3	1876.9	1875.0	1883.6	1906.3	1976.9	2223.6	2390.9	2403.2	2291.3	2035.1
17.5°	1937.0	1935.4	1928.1	1928.1	1936.4	1963.9	2109.7	2361.8	2418.7	2366.9	2076.8
20°	2038.9	2031.6	2012.3	1994.6	1985.7	2000.6	2062.9	2294.7	2391.8	2433.0	2111.3
22.5°	2162.2	2156.5	2125.2	2087.2	2056.6	2056.3	2086.9	2236.2	2345.3	2495.3	2140.4
25°	2321.6	2312.5	2266.0	2205.2	2151.5	2130.9	2139.4	2233.4	2320.0	2563.0	2166.3
27.5°	2508.9	2492.1	2437.1	2349.5	2270.4	2228.9	2216.6	2284.9	2343.1	2646.8	2202.4
30°	2736.0	2716.7	2646.1	2532.0	2420.3	2352.3	2326.1	2376.3	2419.7	2748.9	2260.3
32.5°	2994.4	2966.6	2884.9	2759.1	2612.3	2508.6	2465.9	2497.2	2531.6	2872.0	2332.7
35°	3351.5	3318.3	3200.3	3026.7	2860.9	2718.3	2649.9	2672.7	2706.2	3055.4	2437.4
37.5°	3595.0	3580.2	3501.7	3338.5	3158.2	2994.1	2888.4	2901.7	2920.7	3284.7	2571.5
40°	3592.8	3598.8	3600.4	3602.0	3479.3	3322.1	3208.5	3194.6	3190.8	3536.5	2724.0
42.5°	3412.9	3437.5	3517.2	3678.9	3753.5	3681.4	3577.3	3537.2	3517.2	3833.2	2885.6
45°	3137.4	3150.6	3299.9	3615.6	3893.9	4037.2	3958.5	3831.9	3795.9	4105.9	3019.7
47.5°	2995.3	3009.9	3103.8	3448.0	3892.4	4324.7	4370.3	4129.3	4064.7	4343.1	3135.5
50°	2657.2	2687.6	2805.9	3156.3	3750.3	4456.9	4800.8	4483.5	4350.0	4574.0	3251.5
52.5°	2036.3	2083.1	2215.7	2676.8	3390.1	4391.5	5145.2	4913.0	4724.5	4813.1	3351.2
55°	1284.5	1319.3	1430.6	1890.5	2711.9	4050.8	5275.8	5377.7	5210.1	5039.6	3437.5
57.5°	698.4	713.9	755.6	1043.8	1764.0	3297.7	5085.4	5642.1	5572.5	5231.9	3502.7
58°	625.0	635.4	661.4	904.6	1564.4	3091.8	5001.0	5643.1	5608.3	5260.0	3507.7
60°	463.7	458.3	435.2	516.2	870.8	2136.0	4490.5	5417.2	5519.4	5294.5	3483.1
62.5°	407.4	394.4	347.3	341.9	423.5	984.0	3435.9	4640.4	4881.7	5097.8	3333.1
65°	382.7	368.8	308.1	288.5	305.5	416.2	2024.0	3480.2	3782.9	4501.2	2949.8
67.5°	364.4	346.3	283.1	256.2	257.5	275.2	811.3	2191.9	2532.6	3417.6	2294.4
70°	346.7	327.1	261.9	230.9	223.6	217.6	322.6	1097.2	1406.3	2158.7	1462.9
72.5°	327.7	308.4	243.2	211.0	196.7	176.8	210.7	448.8	626.9	1021.3	663.6
75°	300.2	282.8	224.6	193.3	173.0	146.4	159.1	234.4	281.2	406.8	319.8
77.5°	266.3	252.1	203.7	178.7	153.4	118.9	122.4	162.6	180.3	232.8	190.1
80°	191.4	196.4	181.2	160.7	136.6	96.5	93.9	118.6	128.1	149.6	123.7
82.5°	134.4	137.3	149.9	131.3	112.9	75.9	69.3	83.5	89.2	98.4	66.7
85°	92.7	89.5	102.8	91.4	81.6	50.6	47.4	56.6	60.1	61.0	34.5
87.5°	55.7	55.7	59.5	49.0	44.0	26.3	25.6	32.3	34.5	32.9	19.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2
2.5°	1789.0	1766.5	1718.8	1680.5	1632.1	1581.8	1553.7	1523.6	1503.0	1488.2	1511.9
5°	1802.6	1756.7	1658.0	1564.4	1461.0	1353.4	1271.8	1195.9	1143.1	1110.2	1141.2
7.5°	1824.1	1753.6	1596.4	1436.3	1250.6	1071.6	911.6	811.3	752.8	724.0	742.0
10°	1848.8	1748.5	1523.9	1262.7	997.0	771.4	651.9	611.4	598.1	592.7	595.3
12.5°	1869.3	1737.7	1435.0	1052.6	748.7	609.2	574.7	573.8	576.6	577.2	578.2
15°	1883.9	1721.9	1303.1	833.8	598.8	555.1	553.2	558.9	564.3	566.5	567.8
17.5°	1893.7	1689.3	1154.2	659.2	536.4	528.8	533.3	540.6	546.2	547.8	549.1
20°	1892.7	1641.6	976.7	549.7	502.6	502.6	510.2	515.9	516.2	514.3	515.2
22.5°	1882.9	1576.1	804.7	491.5	472.5	477.9	485.5	480.1	458.0	443.4	444.4
25°	1866.5	1498.0	657.3	454.5	444.7	454.2	452.0	411.5	379.9	365.6	365.6
27.5°	1851.9	1405.6	544.0	422.3	416.9	428.6	389.4	352.7	339.4	332.7	330.5
30°	1841.5	1306.0	468.4	391.3	390.6	382.1	337.8	327.7	325.5	320.1	318.2
32.5°	1844.0	1205.1	420.0	364.1	366.3	327.1	313.1	315.3	313.5	307.8	305.2
35°	1864.9	1109.3	388.4	339.4	332.7	295.4	298.6	302.7	302.1	294.2	291.6
37.5°	1902.2	1018.5	367.5	318.8	290.4	279.6	284.7	291.0	289.4	284.0	282.1
40°	1941.4	933.1	350.5	302.7	265.4	268.9	273.3	276.8	278.3	279.9	278.7
42.5°	1979.7	843.9	329.6	286.2	254.9	258.7	260.6	264.1	272.6	278.7	278.3
45°	2002.5	760.1	308.1	262.8	246.7	248.9	247.7	254.6	265.1	274.9	275.2
47.5°	2027.8	694.9	291.0	241.3	238.8	240.4	236.6	243.5	253.0	265.1	266.3
50°	2058.5	656.0	277.4	224.3	228.1	228.1	227.1	233.4	246.7	260.6	263.2
52.5°	2093.3	648.4	266.0	211.9	217.3	217.0	217.9	227.4	242.0	255.6	257.8
55°	2135.6	669.0	253.7	202.7	206.9	208.1	211.3	222.0	234.4	249.9	250.8
57.5°	2185.0	710.7	243.9	195.5	197.4	201.5	206.5	216.3	229.6	246.7	247.7
58°	2193.2	719.6	242.3	194.8	195.5	200.2	205.9	215.4	228.7	247.3	248.3
60°	2193.5	749.0	238.8	192.0	188.2	196.1	202.4	211.9	227.1	249.6	251.8
62.5°	2115.7	748.7	236.3	187.9	180.6	190.4	197.7	208.8	225.5	254.9	259.4
65°	1863.0	680.4	224.3	181.6	174.6	185.4	193.6	206.5	229.9	278.3	281.2
67.5°	1457.2	557.6	201.8	172.7	166.7	180.3	191.0	206.2	234.7	283.7	285.6
70°	963.4	417.2	177.1	162.6	158.5	174.3	192.3	217.0	229.3	272.3	267.3
72.5°	500.1	292.9	157.2	149.9	149.0	168.9	210.7	215.7	223.9	256.2	249.9
75°	262.5	203.4	139.8	136.0	137.6	167.6	248.6	210.0	217.0	245.1	257.1
77.5°	160.7	164.2	124.9	123.4	126.5	163.8	248.3	202.7	206.9	225.5	238.8
80°	107.5	133.2	113.6	113.9	116.1	149.9	223.0	191.4	194.5	213.2	226.8
82.5°	68.0	78.8	103.1	108.5	105.6	123.7	189.5	174.3	178.7	243.9	257.8
85°	34.5	49.3	89.5	104.4	95.2	86.7	153.7	152.8	155.0	175.9	183.8
87.5°	15.8	27.2	69.9	91.1	71.8	54.1	111.7	113.2	122.1	124.9	124.9
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)