

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: P199937

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199937
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: GPC-AF-01-LED-E1-AFL-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919.4 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

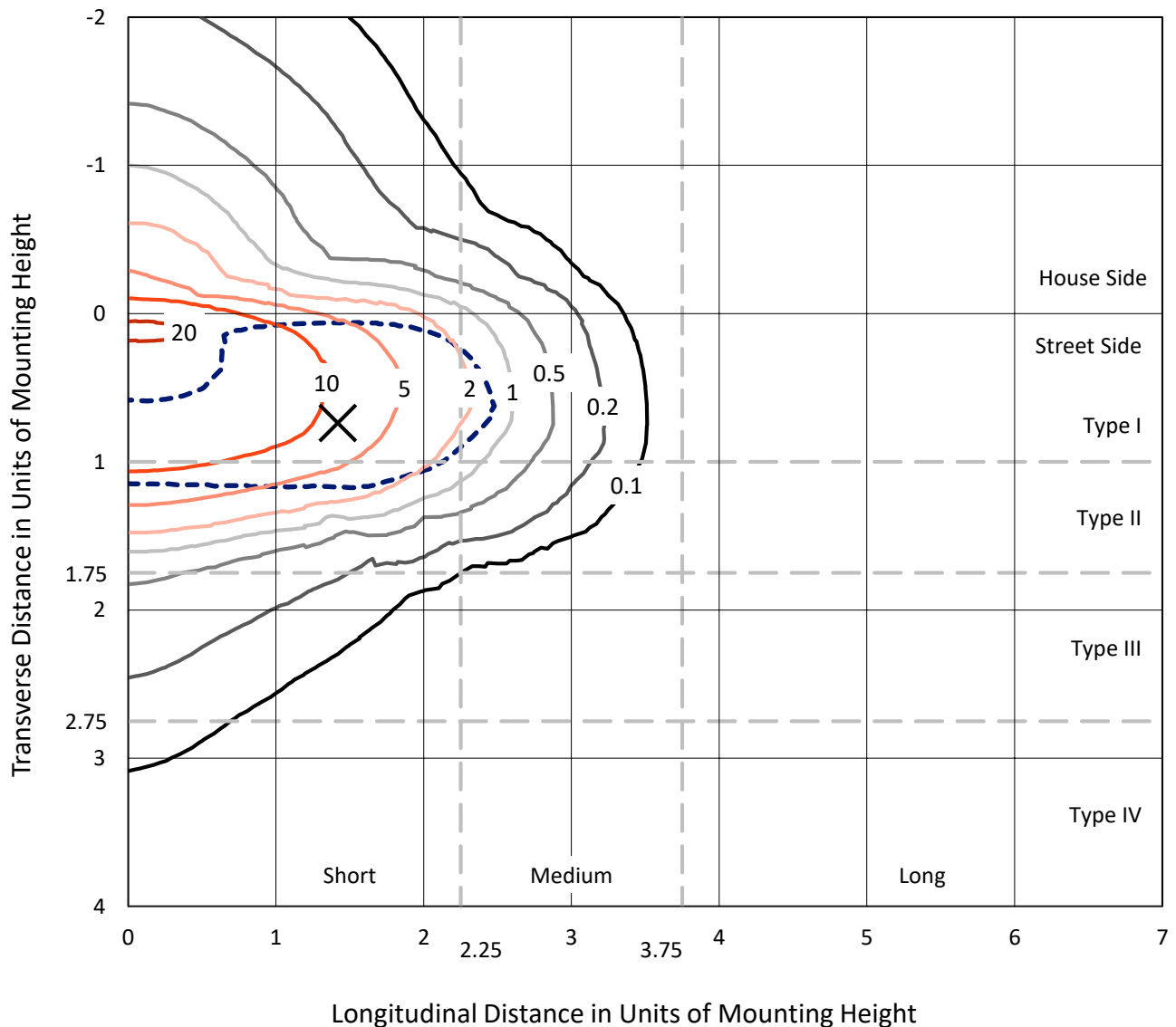
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

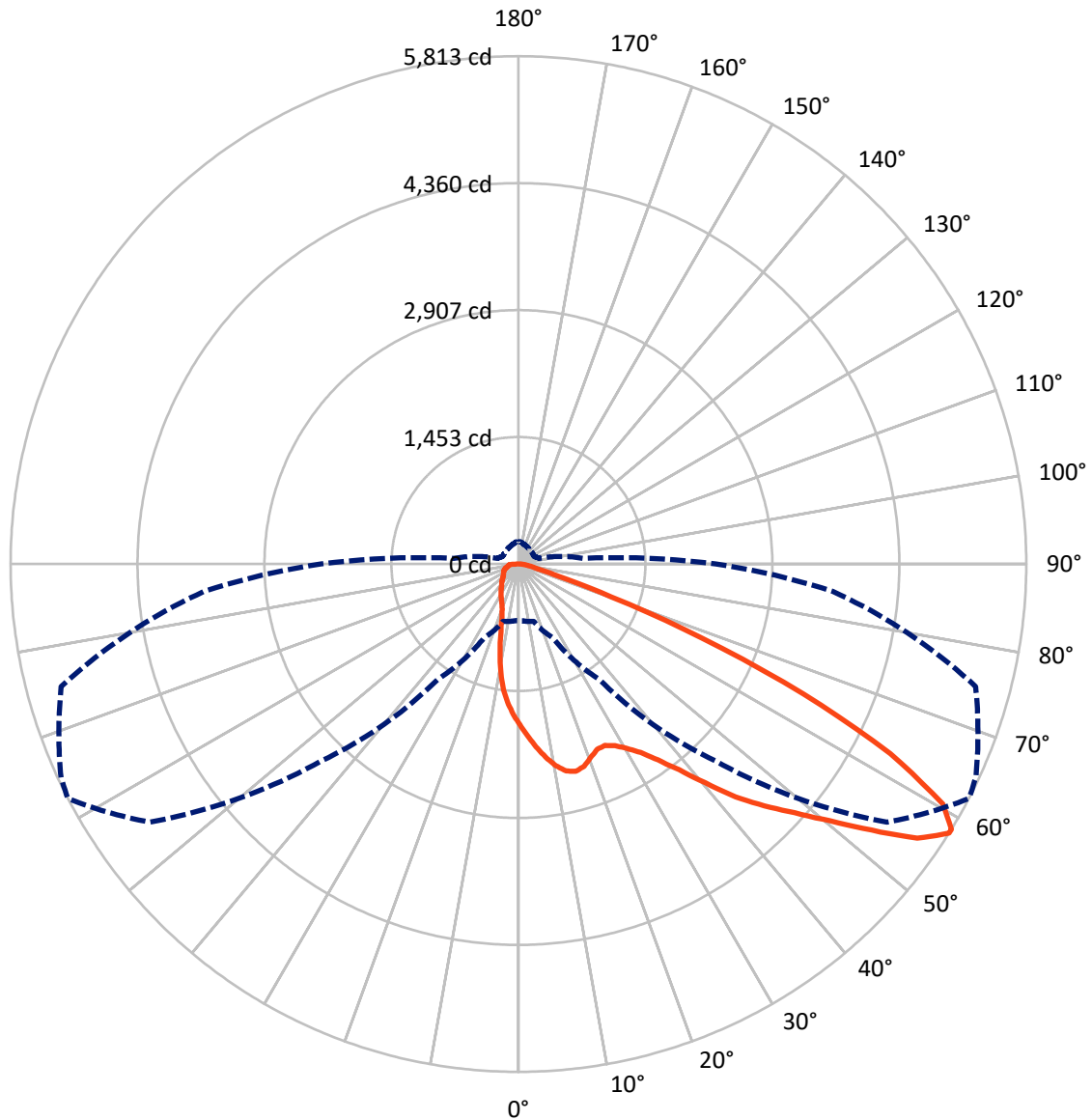
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 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	1055.2	0.0	1055.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5864.2	0.0	5864.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	6919.4	0.0	6919.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.4
10°-20°	420.2	6.1
20°-30°	679.2	9.8
30°-40°	1078.3	15.6
40°-50°	1577.8	22.8
50°-60°	1650.2	23.8
60°-70°	974.9	14.1
70°-80°	274.6	4.0
80°-90°	99.7	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°	6919.4	100.0
0°-180°	6919.4	100.0



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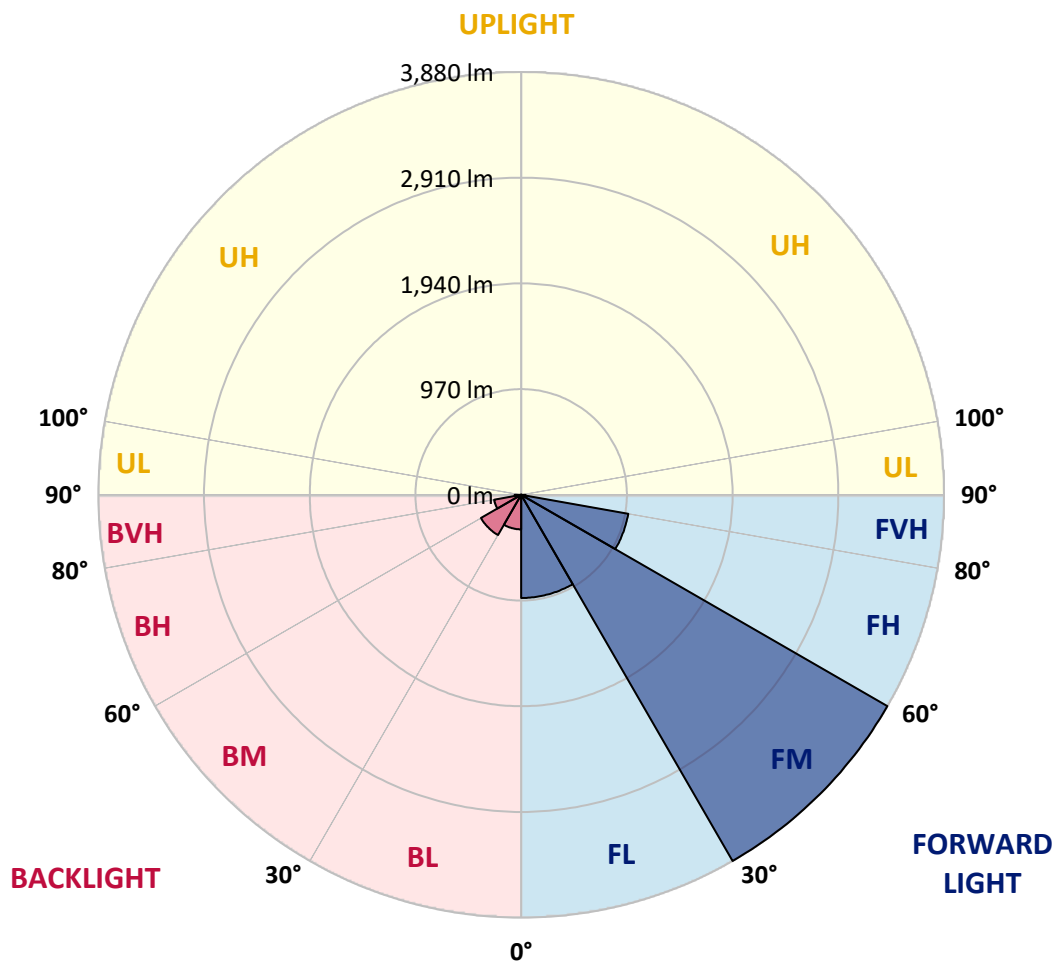
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.7	13.7			
FM (30°-60°)	3880.4	56.1			
FH (60°-80°)	997.8	14.4			G1/1800
FVH (80°-90°)	39.3	0.6			G1/100
BL (0°-30°)	317.2	4.6	B1/500		
BM (30°-60°)	425.9	6.2	B1/1000		
BH (60°-80°)	251.8	3.6	B1/500		G1/500
BVH (80°-90°)	60.4	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°	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0
2.5°	2100.3	2083.3	2072.5	2063.2	2050.8	2024.3	1988.8	1966.3	1954.9	1916.2	1870.3
5°	2306.3	2291.1	2280.1	2267.4	2245.3	2203.9	2146.5	2100.9	2078.4	2000.9	1909.0
7.5°	2258.0	2264.2	2283.4	2317.0	2345.7	2340.2	2289.0	2231.0	2201.2	2093.4	1954.0
10°	1967.3	1978.1	2011.4	2089.9	2217.0	2347.2	2387.0	2346.9	2317.0	2184.9	2000.2
12.5°	1909.0	1908.6	1911.3	1932.1	2007.7	2191.2	2390.3	2430.7	2412.8	2272.4	2047.5
15°	1932.8	1933.5	1931.4	1940.3	1963.7	2036.4	2290.6	2462.9	2475.6	2360.3	2096.3
17.5°	1995.4	1993.8	1986.3	1986.3	1994.7	2023.1	2173.2	2432.9	2491.6	2438.1	2139.4
20°	2100.3	2092.8	2072.8	2054.6	2045.6	2060.8	2125.1	2364.0	2463.9	2506.3	2175.0
22.5°	2227.4	2221.5	2189.2	2150.1	2118.5	2118.2	2149.7	2303.6	2416.0	2570.5	2204.9
25°	2391.5	2382.2	2334.3	2271.7	2216.4	2195.1	2203.9	2300.7	2389.9	2640.1	2231.6
27.5°	2584.4	2567.1	2510.4	2420.2	2338.8	2296.1	2283.4	2353.8	2413.7	2726.6	2268.8
30°	2818.5	2798.5	2725.9	2608.2	2493.2	2423.2	2396.2	2448.0	2492.5	2831.8	2328.4
32.5°	3084.6	3056.0	2971.9	2842.2	2691.0	2584.1	2540.2	2572.4	2607.9	2958.5	2402.9
35°	3452.5	3418.2	3296.7	3117.8	2947.2	2800.2	2729.8	2753.3	2787.8	3147.5	2510.8
37.5°	3703.4	3688.0	3607.2	3439.2	3253.4	3084.3	2975.4	2989.2	3008.7	3383.8	2649.0
40°	3701.0	3707.2	3709.0	3710.6	3584.1	3422.2	3305.2	3290.9	3286.9	3643.0	2806.0
42.5°	3515.6	3541.1	3623.2	3789.6	3866.5	3792.3	3685.1	3643.7	3623.2	3948.7	2972.5
45°	3231.9	3245.5	3399.4	3724.5	4011.2	4158.9	4077.8	3947.4	3910.3	4229.5	3110.7
47.5°	3085.6	3100.6	3197.4	3551.8	4009.6	4455.0	4501.9	4253.7	4187.3	4473.9	3229.9
50°	2737.3	2768.5	2890.5	3251.4	3863.3	4591.3	4945.4	4618.6	4481.2	4711.8	3349.6
52.5°	2097.7	2145.9	2282.4	2757.4	3492.3	4523.8	5300.2	5061.1	4866.9	4958.0	3452.1
55°	1323.2	1359.0	1473.7	1947.4	2793.6	4172.8	5434.8	5539.8	5367.1	5191.5	3541.1
57.5°	719.5	735.5	778.4	1075.2	1817.1	3397.1	5238.7	5812.1	5740.5	5389.5	3608.2
58°	643.9	654.6	681.3	931.9	1611.6	3185.0	5151.7	5813.1	5777.3	5418.5	3613.4
60°	477.7	472.1	448.3	531.8	897.0	2200.3	4625.8	5580.4	5685.8	5454.0	3588.0
62.5°	419.7	406.3	357.8	352.3	436.3	1013.6	3539.5	4780.2	5028.8	5251.3	3433.6
65°	394.2	379.9	317.4	297.1	314.7	428.9	2085.0	3585.2	3897.0	4636.9	3038.7
67.5°	375.3	356.7	291.6	264.0	265.2	283.4	835.8	2258.0	2608.9	3520.6	2363.6
70°	357.1	336.9	269.8	237.8	230.3	224.2	332.3	1130.3	1448.7	2223.8	1506.9
72.5°	337.6	317.7	250.5	217.3	202.6	182.1	217.0	462.3	645.8	1052.0	683.6
75°	309.2	291.2	231.3	199.1	178.2	150.9	163.9	241.5	289.6	419.0	329.4
77.5°	274.3	259.7	209.9	184.1	158.0	122.5	126.0	167.5	185.7	239.9	195.8
80°	197.1	202.3	186.8	165.5	140.7	99.4	96.8	122.2	131.9	154.2	127.4
82.5°	138.4	141.4	154.5	135.3	116.4	78.2	71.3	86.0	91.9	101.3	68.8
85°	95.5	92.3	105.9	94.2	84.0	52.1	48.8	58.4	62.0	63.0	35.5
87.5°	57.4	57.4	61.3	50.5	45.4	27.1	26.4	33.3	35.5	33.9	19.5
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°	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0	1838.0
2.5°	1842.8	1819.7	1770.5	1731.1	1681.3	1629.5	1600.4	1569.5	1548.3	1533.0	1557.5
5°	1856.9	1809.7	1707.9	1611.6	1505.0	1394.2	1310.1	1232.0	1177.6	1143.6	1175.6
7.5°	1879.0	1806.4	1644.5	1479.6	1288.2	1103.9	939.1	835.8	775.5	745.8	764.4
10°	1904.5	1801.1	1569.8	1300.7	1027.0	794.7	671.5	629.9	616.1	610.6	613.2
12.5°	1925.7	1790.1	1478.3	1084.4	771.3	627.5	592.0	591.1	594.0	594.6	595.6
15°	1940.7	1773.9	1342.4	858.9	616.8	571.9	569.9	575.7	581.3	583.6	584.9
17.5°	1950.8	1740.3	1189.0	679.0	552.7	544.7	549.3	556.7	562.6	564.4	565.6
20°	1949.7	1691.0	1006.2	566.3	517.8	517.8	525.5	531.4	531.8	529.8	530.8
22.5°	1939.7	1623.6	829.0	506.3	486.7	492.3	500.2	494.6	471.8	456.8	457.8
25°	1922.8	1543.1	677.1	468.1	458.2	467.8	465.6	423.9	391.3	376.6	376.6
27.5°	1907.7	1448.0	560.4	435.0	429.4	441.5	401.1	363.3	349.6	342.7	340.5
30°	1897.0	1345.3	482.6	403.0	402.4	393.6	348.0	337.6	335.3	329.8	327.8
32.5°	1899.6	1241.4	432.6	375.0	377.3	336.9	322.6	324.8	322.9	317.1	314.4
35°	1921.1	1142.7	400.1	349.6	342.7	304.3	307.6	311.8	311.2	302.9	300.5
37.5°	1959.6	1049.2	378.6	328.5	299.2	288.0	293.3	299.8	298.2	292.6	290.6
40°	1999.9	961.2	361.0	311.8	273.3	277.0	281.6	285.0	286.7	288.3	287.1
42.5°	2039.4	869.2	339.5	294.9	262.7	266.5	268.4	272.0	280.9	287.1	286.7
45°	2062.9	783.0	317.4	270.8	254.1	256.4	255.1	262.3	273.0	283.1	283.4
47.5°	2088.9	715.8	299.8	248.6	246.1	247.6	243.7	250.9	260.7	273.0	274.3
50°	2120.5	675.8	285.7	231.0	234.9	234.9	234.0	240.5	254.1	268.4	271.1
52.5°	2156.3	667.9	274.0	218.3	223.9	223.6	224.5	234.3	249.2	263.4	265.5
55°	2199.9	689.1	261.3	208.9	213.0	214.3	217.7	228.7	241.5	257.5	258.4
57.5°	2250.8	732.1	251.2	201.4	203.3	207.6	212.7	222.9	236.5	254.1	255.1
58°	2259.3	741.3	249.5	200.7	201.4	206.3	212.1	221.9	235.6	254.8	255.7
60°	2259.6	771.6	246.1	197.8	193.8	202.0	208.5	218.3	234.0	257.1	259.4
62.5°	2179.5	771.3	243.4	193.5	186.1	196.1	203.7	215.0	232.2	262.7	267.1
65°	1919.1	700.9	231.0	187.1	179.8	190.9	199.4	212.7	236.9	286.7	289.6
67.5°	1501.1	574.4	207.9	177.9	171.7	185.7	196.7	212.4	241.8	292.3	294.2
70°	992.5	429.7	182.5	167.5	163.3	179.5	198.1	223.6	236.2	280.6	275.4
72.5°	515.1	301.7	161.9	154.5	153.5	173.9	217.0	222.3	230.6	264.0	257.5
75°	270.4	209.6	144.0	140.1	141.7	172.7	256.1	216.4	223.6	252.5	264.9
77.5°	165.5	169.2	128.7	127.1	130.3	168.8	255.7	208.9	213.0	232.2	246.1
80°	110.8	137.1	117.0	117.4	119.5	154.5	229.7	197.1	200.4	219.6	233.6
82.5°	70.0	81.2	106.2	111.8	108.8	127.4	195.1	179.5	184.1	251.2	265.5
85°	35.5	50.8	92.3	107.5	98.2	89.3	158.3	157.4	159.6	181.2	189.3
87.5°	16.3	28.0	72.0	93.9	74.0	55.7	115.0	116.7	125.7	128.7	128.7
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)