

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: STREETWORKS

Report Number: P200572

Luminaire Tested: **GAP-AF-02-LED-U-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200572
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: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-AFL-8030-600
Description: GALLEON PEDESTRIAN 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: 6852 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

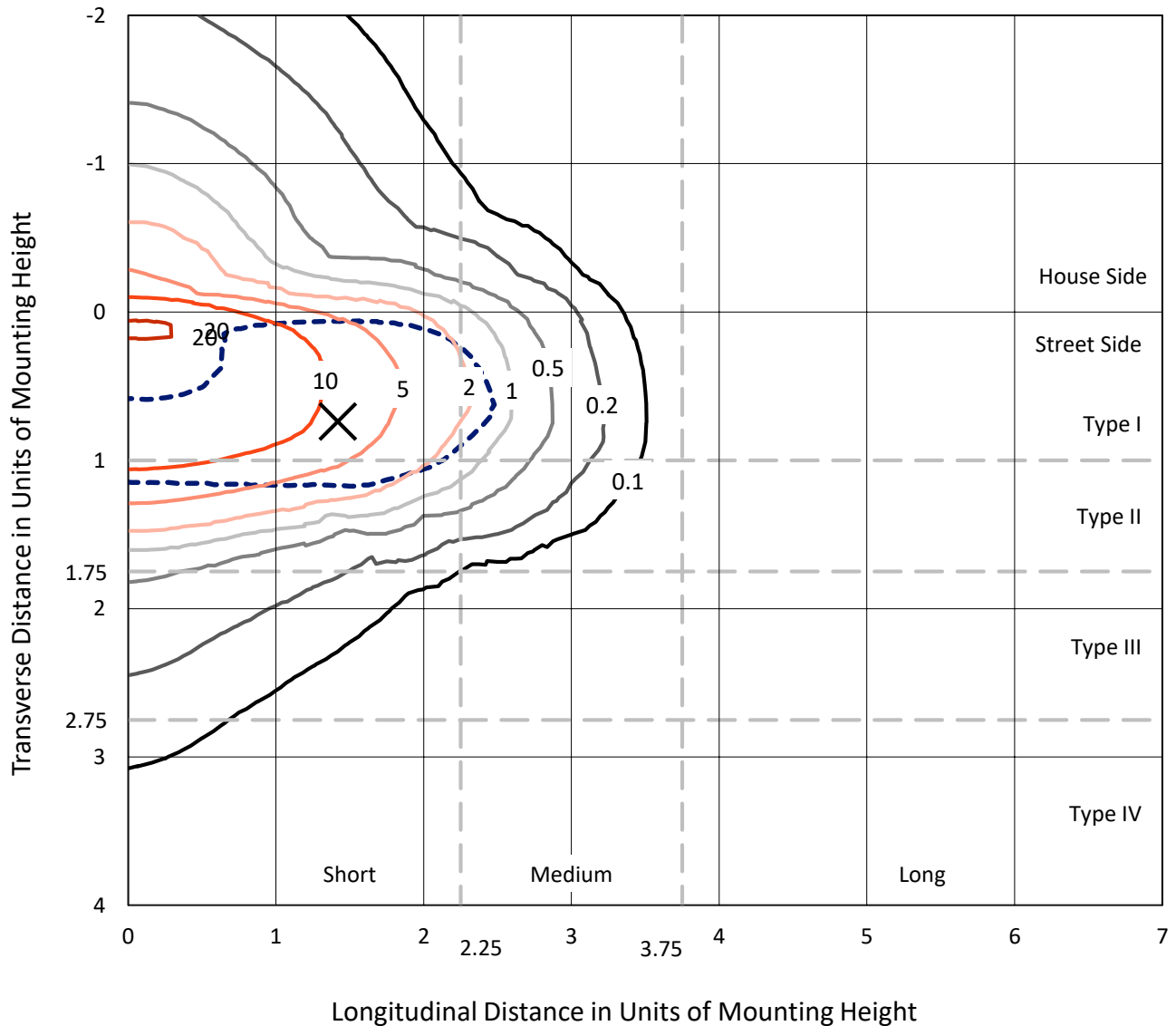
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

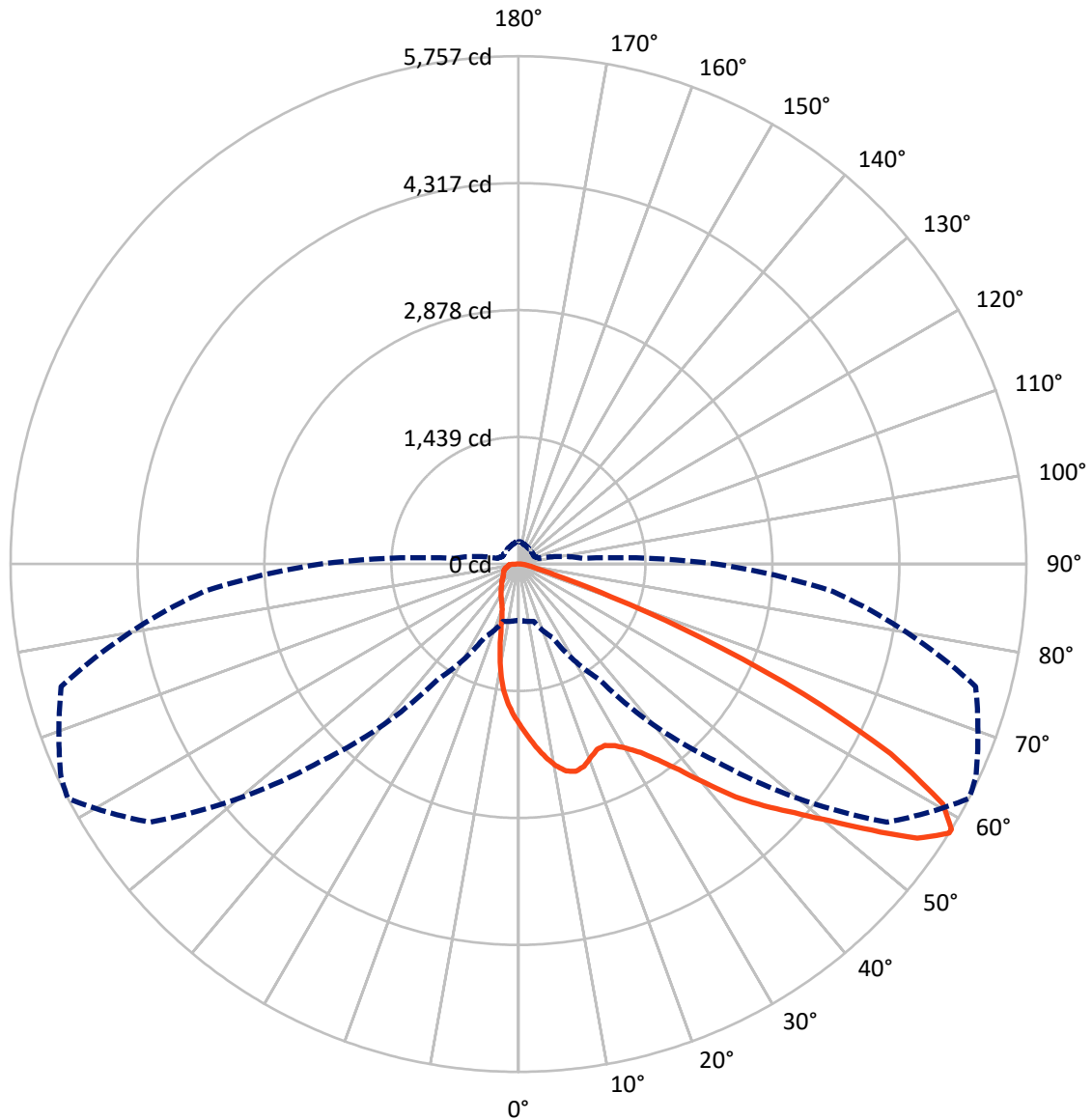
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 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	1045.0	0.0	1045.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5807.0	0.0	5807.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	6852.0	0.0	6852.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	2.4
10°-20°	416.1	6.1
20°-30°	672.6	9.8
30°-40°	1067.8	15.6
40°-50°	1562.4	22.8
50°-60°	1634.1	23.8
60°-70°	965.5	14.1
70°-80°	272.0	4.0
80°-90°	98.7	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°	6852.0	100.0
0°-180°	6852.0	100.0



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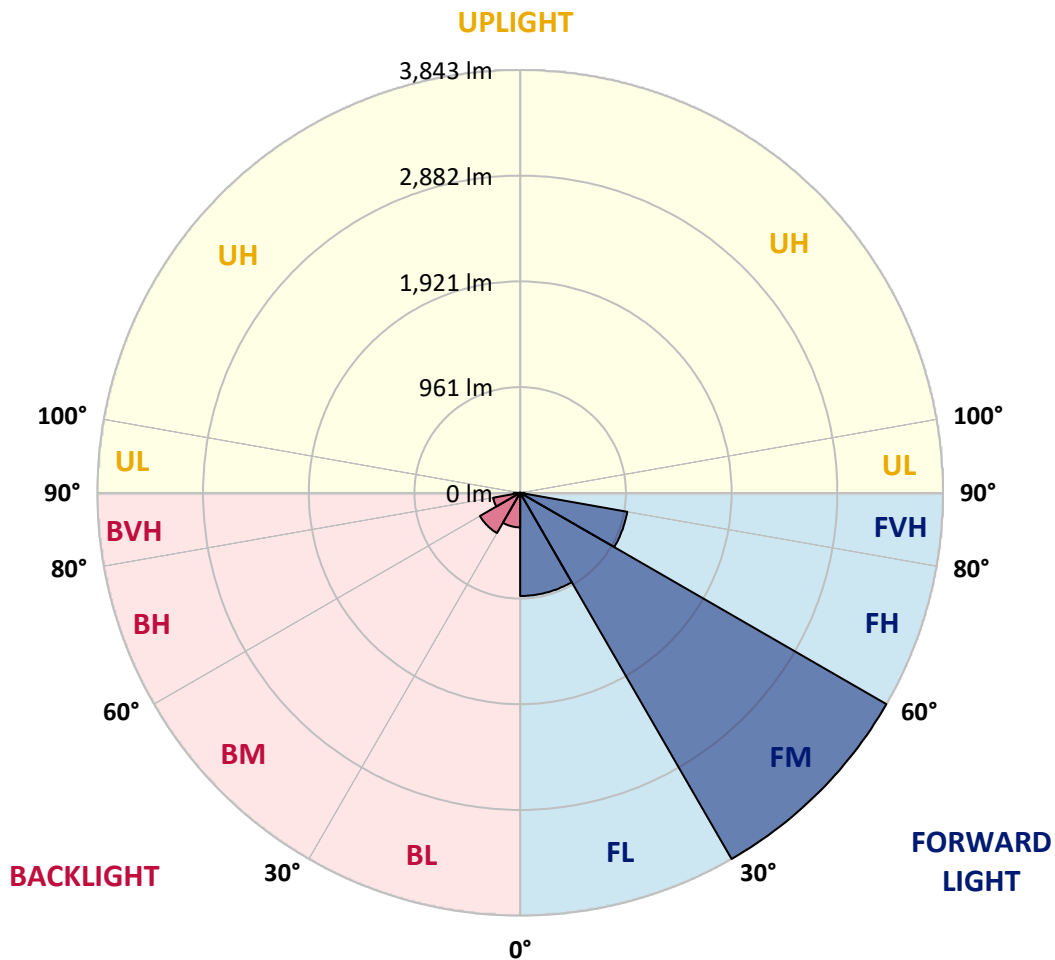
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	937.4	13.7			
FM	(30°-60°)	3842.6	56.1			
FH	(60°-80°)	988.1	14.4			G1/1800
FVH	(80°-90°)	39.0	0.6			G1/100
BL	(0°-30°)	314.1	4.6	B1/500		
BM	(30°-60°)	421.8	6.2	B1/1000		
BH	(60°-80°)	249.3	3.6	B1/500		G1/500
BVH	(80°-90°)	59.8	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°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	2079.8	2063.1	2052.4	2043.0	2030.8	2004.7	1969.5	1947.2	1935.9	1897.5	1852.0
5°	2283.7	2268.9	2257.9	2245.4	2223.4	2182.4	2125.6	2080.5	2058.2	1981.4	1890.4
7.5°	2236.0	2242.1	2261.2	2294.4	2322.8	2317.3	2266.6	2209.2	2179.9	2073.1	1935.0
10°	1948.2	1958.8	1991.7	2069.5	2195.3	2324.4	2363.8	2324.1	2294.4	2163.7	1980.8
12.5°	1890.4	1890.1	1892.7	1913.3	1988.2	2169.9	2367.0	2407.0	2389.3	2250.2	2027.6
15°	1914.0	1914.6	1912.7	1921.4	1944.6	2016.6	2268.3	2438.9	2451.5	2337.3	2076.0
17.5°	1975.9	1974.3	1966.9	1966.9	1975.3	2003.4	2152.1	2409.3	2467.3	2414.4	2118.5
20°	2079.8	2072.4	2052.7	2034.7	2025.6	2040.8	2104.4	2340.9	2439.9	2481.9	2153.7
22.5°	2205.7	2199.9	2167.9	2129.2	2097.9	2097.6	2128.9	2281.2	2392.5	2545.4	2183.4
25°	2368.3	2358.9	2311.5	2249.5	2194.7	2173.7	2182.4	2278.3	2366.7	2614.5	2209.9
27.5°	2559.3	2542.2	2486.1	2396.7	2316.0	2273.7	2261.2	2330.9	2390.2	2700.0	2246.6
30°	2791.0	2771.3	2699.3	2582.8	2469.0	2399.6	2372.8	2424.1	2468.3	2804.2	2305.7
32.5°	3054.6	3026.2	2942.9	2814.5	2664.8	2559.0	2515.4	2547.4	2582.5	2929.7	2379.6
35°	3418.8	3385.0	3264.6	3087.5	2918.4	2772.9	2703.2	2726.4	2760.6	3116.8	2486.4
37.5°	3667.3	3652.1	3572.1	3405.6	3221.7	3054.2	2946.5	2960.0	2979.4	3350.8	2623.2
40°	3665.0	3671.2	3672.8	3674.4	3549.2	3388.8	3273.0	3258.8	3254.9	3607.6	2778.7
42.5°	3481.4	3506.6	3587.9	3752.8	3828.9	3755.4	3649.2	3608.2	3587.9	3910.3	2943.6
45°	3200.4	3214.0	3366.3	3688.3	3972.2	4118.4	4038.0	3909.0	3872.2	4188.4	3080.4
47.5°	3055.5	3070.4	3166.2	3517.3	3970.6	4411.7	4458.1	4212.3	4146.4	4430.4	3198.5
50°	2710.6	2741.6	2862.3	3219.8	3825.7	4546.5	4897.3	4573.6	4437.5	4665.9	3316.9
52.5°	2077.2	2125.0	2260.2	2730.6	3458.2	4479.7	5248.6	5011.8	4819.5	4909.8	3418.5
55°	1310.3	1345.8	1459.4	1928.5	2766.4	4132.2	5381.9	5485.8	5314.8	5140.9	3506.6
57.5°	712.4	728.2	770.8	1064.8	1799.4	3364.0	5187.6	5755.5	5684.5	5337.0	3573.1
58°	637.6	648.2	674.7	922.8	1595.8	3153.9	5101.5	5756.5	5721.0	5365.7	3578.2
60°	473.0	467.5	444.0	526.6	888.3	2178.9	4580.7	5526.1	5630.3	5400.9	3553.1
62.5°	415.6	402.4	354.3	348.8	432.0	1003.8	3505.0	4733.7	4979.9	5200.2	3400.1
65°	390.4	376.2	314.3	294.3	311.7	424.6	2064.7	3550.2	3858.9	4591.7	3009.1
67.5°	371.7	353.3	288.8	261.4	262.6	280.7	827.6	2236.0	2583.5	3486.3	2340.5
70°	353.6	333.6	267.2	235.5	228.1	222.0	329.1	1119.3	1434.5	2202.1	1492.3
72.5°	334.3	314.6	248.1	215.2	200.7	180.4	214.9	457.8	639.5	1041.9	676.9
75°	306.2	288.5	229.1	197.1	176.5	149.4	162.3	239.1	286.8	414.9	326.2
77.5°	271.7	257.2	207.8	182.3	156.5	121.3	124.9	165.8	183.9	237.5	193.9
80°	195.2	200.4	184.9	163.9	139.4	98.4	95.8	121.0	130.7	152.6	126.2
82.5°	137.1	140.0	152.9	133.9	115.2	77.4	70.7	85.2	91.0	100.3	68.1
85°	94.5	91.3	104.9	93.2	83.2	51.6	48.4	57.8	61.3	62.3	35.2
87.5°	56.8	56.8	60.7	50.0	44.8	26.8	26.1	32.9	35.2	33.6	19.4
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°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1824.9	1802.0	1753.3	1714.3	1664.9	1613.6	1584.9	1554.2	1533.3	1518.1	1542.3
5°	1838.8	1792.0	1691.4	1595.8	1490.3	1380.6	1297.4	1220.0	1166.1	1132.5	1164.1
7.5°	1860.7	1788.8	1628.4	1465.2	1275.8	1093.2	929.9	827.6	767.9	738.6	756.9
10°	1885.9	1783.6	1554.5	1288.0	1017.0	787.0	665.0	623.7	610.1	604.7	607.2
12.5°	1906.9	1772.7	1463.9	1073.8	763.7	621.4	586.3	585.3	588.2	588.8	589.8
15°	1921.7	1756.5	1329.3	850.5	610.8	566.3	564.3	570.1	575.6	577.9	579.2
17.5°	1931.7	1723.3	1177.4	672.4	547.2	539.5	544.0	551.4	557.2	558.8	560.1
20°	1930.8	1674.6	996.4	560.8	512.7	512.7	520.4	526.2	526.6	524.6	525.6
22.5°	1920.8	1607.8	820.8	501.4	482.0	487.5	495.3	489.8	467.2	452.4	453.3
25°	1904.0	1528.1	670.5	463.7	453.7	463.3	461.1	419.8	387.5	373.0	373.0
27.5°	1889.1	1433.9	555.0	430.7	425.3	437.2	397.2	359.8	346.2	339.4	337.2
30°	1878.5	1332.2	477.9	399.1	398.5	389.8	344.6	334.3	332.0	326.5	324.6
32.5°	1881.1	1229.3	428.5	371.4	373.6	333.6	319.4	321.7	319.8	313.9	311.4
35°	1902.4	1131.5	396.2	346.2	339.4	301.4	304.6	308.8	308.1	300.1	297.5
37.5°	1940.4	1038.9	374.9	325.2	296.2	285.2	290.4	296.8	295.2	289.7	287.8
40°	1980.5	951.8	357.5	308.8	270.7	274.3	278.8	282.3	283.9	285.5	284.3
42.5°	2019.5	860.8	336.2	292.0	260.1	263.9	265.9	269.4	278.1	284.3	283.9
45°	2042.7	775.3	314.3	268.1	251.7	253.9	252.6	259.7	270.4	280.4	280.7
47.5°	2068.5	708.9	296.8	246.2	243.6	245.2	241.3	248.4	258.1	270.4	271.7
50°	2099.8	669.2	283.0	228.8	232.6	232.6	231.7	238.1	251.7	265.9	268.4
52.5°	2135.3	661.4	271.4	216.2	221.7	221.3	222.3	232.0	246.8	260.7	263.0
55°	2178.6	682.4	258.8	206.8	211.0	212.3	215.5	226.5	239.1	254.9	255.9
57.5°	2228.9	725.0	248.8	199.4	201.3	205.5	210.7	220.7	234.2	251.7	252.6
58°	2237.3	734.0	247.2	198.8	199.4	204.2	210.0	219.7	233.3	252.3	253.3
60°	2237.6	764.0	243.6	195.9	192.0	200.0	206.5	216.2	231.7	254.6	256.8
62.5°	2158.2	763.7	241.0	191.7	184.2	194.2	201.7	213.0	230.1	260.1	264.6
65°	1900.4	694.0	228.8	185.2	178.1	189.1	197.5	210.7	234.6	283.9	286.8
67.5°	1486.5	568.8	205.9	176.2	170.0	183.9	194.9	210.4	239.4	289.4	291.4
70°	982.8	425.6	180.7	165.8	161.6	177.8	196.2	221.3	233.9	277.8	272.6
72.5°	510.1	298.8	160.4	152.9	152.0	172.3	214.9	220.1	228.4	261.4	254.9
75°	267.8	207.5	142.6	138.7	140.4	171.0	253.6	214.2	221.3	250.1	262.3
77.5°	163.9	167.5	127.4	125.8	129.1	167.1	253.3	206.8	211.0	230.1	243.6
80°	109.7	135.8	115.8	116.2	118.4	152.9	227.5	195.2	198.4	217.5	231.3
82.5°	69.4	80.3	105.2	110.7	107.8	126.2	193.3	177.8	182.3	248.8	263.0
85°	35.2	50.3	91.3	106.5	97.1	88.4	156.8	155.8	158.1	179.4	187.5
87.5°	16.1	27.7	71.3	92.9	73.2	55.2	113.9	115.5	124.5	127.4	127.4
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)