

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: P191779

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191779
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: GAN-AF-01-LED-U-AFL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7014 lumens
Efficiency: N/A
Efficacy: 104.7 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: 28.75 FT

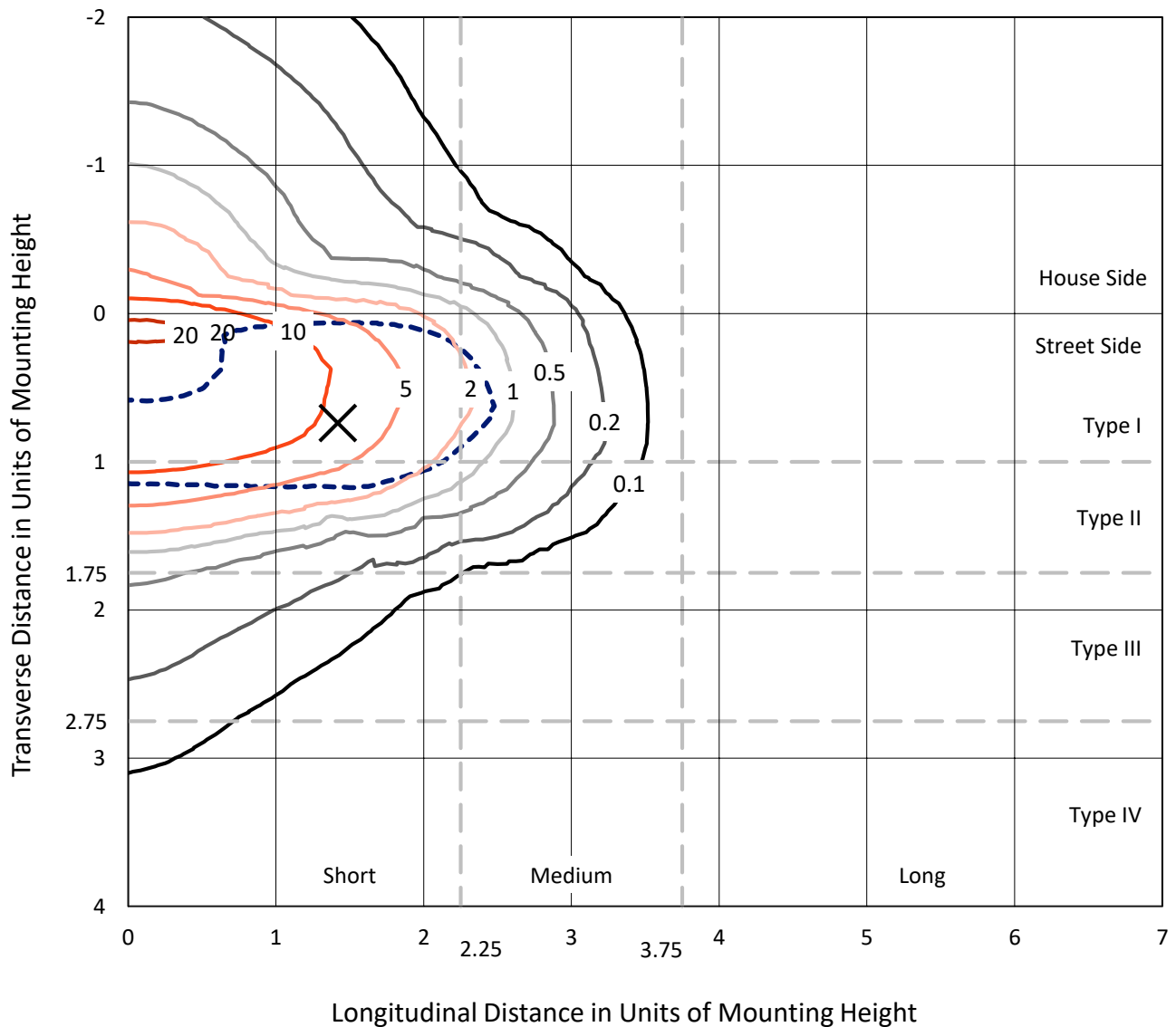


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

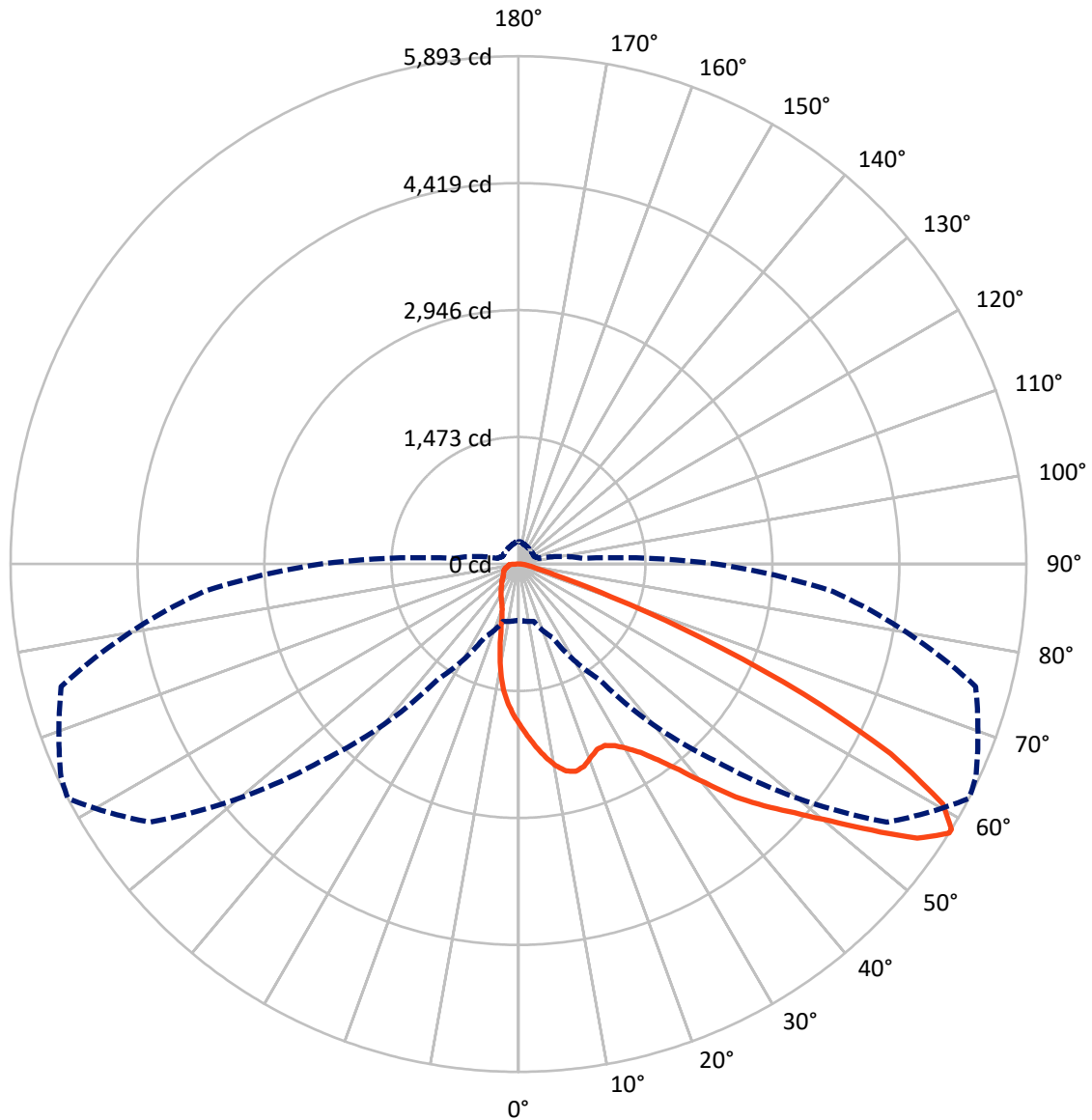


Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - Full Cutoff

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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	1069.7	0.0	1069.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5944.3	0.0	5944.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	7014.0	0.0	7014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	2.4
10°-20°	425.9	6.1
20°-30°	688.5	9.8
30°-40°	1093.0	15.6
40°-50°	1599.3	22.8
50°-60°	1672.8	23.8
60°-70°	988.3	14.1
70°-80°	278.4	4.0
80°-90°	101.1	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°	7014.0	100.0
0°-180°	7014.0	100.0



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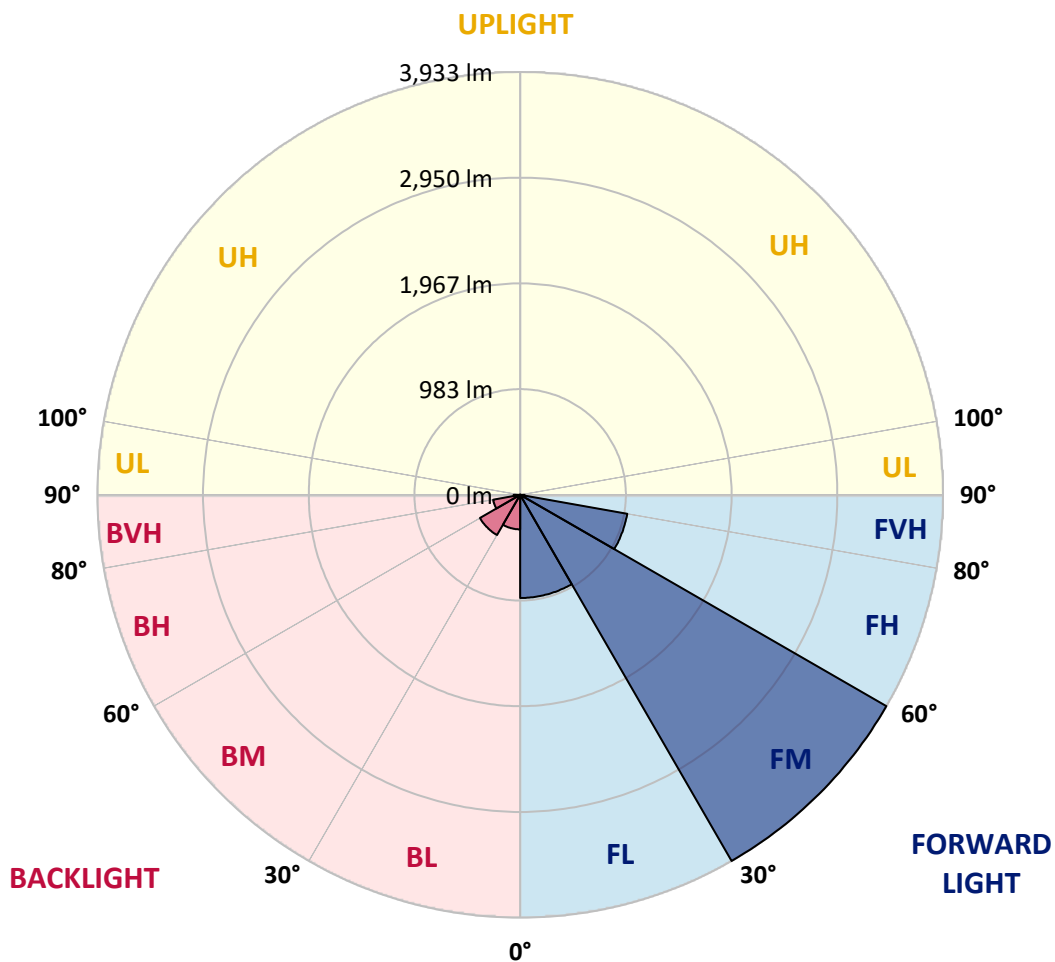
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.6	13.7			
FM	(30°-60°)	3933.4	56.1			
FH	(60°-80°)	1011.5	14.4			G1/1800
FVH	(80°-90°)	39.9	0.6			G1/100
BL	(0°-30°)	321.5	4.6	B1/500		
BM	(30°-60°)	431.7	6.2	B1/1000		
BH	(60°-80°)	255.2	3.6	B1/500		G1/500
BVH	(80°-90°)	61.2	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°	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1
2.5°	2129.0	2111.8	2100.9	2091.4	2078.8	2052.0	2016.0	1993.3	1981.7	1942.4	1895.8
5°	2337.7	2322.5	2311.3	2298.4	2276.0	2234.0	2175.9	2129.7	2106.9	2028.3	1935.1
7.5°	2288.9	2295.1	2314.6	2348.6	2377.7	2372.1	2320.2	2261.4	2231.4	2122.1	1980.7
10°	1994.2	2005.1	2038.8	2118.4	2247.2	2379.4	2419.7	2379.0	2348.6	2214.9	2027.6
12.5°	1935.1	1934.8	1937.4	1958.6	2035.2	2221.2	2423.0	2463.9	2445.7	2303.4	2075.5
15°	1959.2	1959.9	1957.9	1966.8	1990.6	2064.3	2321.9	2496.6	2509.5	2392.6	2125.0
17.5°	2022.7	2021.0	2013.4	2013.4	2022.0	2050.7	2203.0	2466.2	2525.7	2471.5	2168.6
20°	2129.0	2121.4	2101.3	2082.8	2073.5	2089.0	2154.1	2396.2	2497.6	2540.5	2204.6
22.5°	2257.8	2251.9	2219.2	2179.5	2147.5	2147.2	2179.2	2335.1	2449.0	2605.6	2235.0
25°	2424.3	2414.7	2366.1	2302.7	2246.6	2225.1	2234.0	2332.1	2422.6	2676.3	2262.1
27.5°	2619.8	2602.3	2544.8	2453.3	2370.8	2327.5	2314.6	2386.0	2446.7	2763.8	2299.8
30°	2856.9	2836.8	2763.1	2643.9	2527.3	2456.3	2428.9	2481.4	2526.7	2870.5	2360.2
32.5°	3126.8	3097.7	3012.5	2881.1	2727.8	2619.5	2574.9	2607.6	2643.6	2999.0	2435.8
35°	3499.7	3465.0	3341.8	3160.5	2987.4	2838.5	2767.1	2790.9	2825.9	3190.5	2545.2
37.5°	3754.0	3738.5	3656.6	3486.1	3297.9	3126.5	3016.1	3030.0	3049.8	3430.0	2685.2
40°	3751.7	3758.0	3759.6	3761.3	3633.1	3469.0	3350.4	3335.9	3331.9	3692.9	2844.4
42.5°	3563.8	3589.5	3672.7	3841.5	3919.5	3844.2	3735.5	3693.6	3672.7	4002.7	3013.2
45°	3276.1	3289.9	3445.8	3775.5	4066.1	4215.7	4133.5	4001.4	3963.7	4287.4	3153.2
47.5°	3127.8	3143.0	3241.1	3600.4	4064.5	4516.0	4563.5	4311.8	4244.5	4535.1	3274.1
50°	2774.7	2806.4	2929.9	3295.9	3916.2	4654.0	5013.0	4681.8	4542.4	4776.2	3395.3
52.5°	2126.4	2175.2	2313.6	2795.2	3540.0	4585.6	5372.7	5130.3	4933.4	5025.9	3499.3
55°	1341.3	1377.6	1493.9	1974.1	2831.8	4229.9	5509.1	5615.5	5440.4	5262.4	3589.5
57.5°	729.3	745.4	789.0	1089.9	1842.0	3443.5	5310.3	5891.6	5818.9	5463.2	3657.6
58°	652.6	663.5	690.6	944.6	1633.6	3228.5	5222.1	5892.6	5856.2	5492.6	3662.8
60°	484.2	478.6	454.5	539.0	909.3	2230.4	4689.0	5656.8	5763.4	5528.6	3637.1
62.5°	425.4	411.9	362.7	357.0	442.2	1027.5	3587.9	4845.6	5097.6	5323.2	3480.5
65°	399.6	385.1	321.7	301.2	319.1	434.7	2113.5	3634.1	3950.2	4700.3	3080.2
67.5°	380.5	361.7	295.6	267.5	268.9	287.3	847.2	2288.9	2644.6	3568.7	2395.9
70°	362.0	341.5	273.5	241.1	233.5	227.2	336.9	1145.8	1468.4	2254.2	1527.6
72.5°	342.2	322.0	254.0	220.3	205.4	184.6	220.0	468.7	654.6	1066.5	692.9
75°	313.4	295.3	234.5	201.8	180.7	152.9	166.1	244.7	293.6	424.7	333.9
77.5°	278.1	263.2	212.7	186.6	160.2	124.2	127.8	169.8	188.3	243.1	198.5
80°	199.8	205.1	189.3	167.8	142.7	100.7	98.1	123.9	133.8	156.2	129.1
82.5°	140.4	143.3	156.6	137.1	117.9	79.3	72.3	87.2	93.1	102.7	69.7
85°	96.8	93.5	107.3	95.5	85.2	52.8	49.5	59.1	62.8	63.7	36.0
87.5°	58.1	58.1	62.1	51.2	45.9	27.4	26.8	33.7	36.0	34.3	19.8
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°	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1	1863.1
2.5°	1868.1	1844.6	1794.8	1754.8	1704.3	1651.7	1622.3	1591.0	1569.5	1554.0	1578.8
5°	1882.3	1834.4	1731.3	1633.6	1525.6	1413.3	1328.1	1248.8	1193.6	1159.3	1191.7
7.5°	1904.7	1831.1	1666.9	1499.8	1305.9	1119.0	951.9	847.2	786.1	756.0	774.8
10°	1930.5	1825.8	1591.3	1318.5	1041.1	805.6	680.7	638.4	624.6	619.0	621.6
12.5°	1952.0	1814.6	1498.5	1099.2	781.8	636.1	600.1	599.1	602.1	602.8	603.8
15°	1967.2	1798.1	1360.8	870.6	625.2	579.6	577.7	583.6	589.2	591.5	592.9
17.5°	1977.4	1764.0	1205.2	688.3	560.2	552.2	556.9	564.5	570.4	572.1	573.4
20°	1976.4	1714.2	1019.9	574.0	524.8	524.8	532.7	538.7	539.0	537.0	538.0
22.5°	1966.2	1645.8	840.2	513.3	493.4	499.1	507.0	501.4	478.2	463.1	464.0
25°	1949.0	1564.2	686.3	474.6	464.4	474.3	472.0	429.7	396.7	381.8	381.8
27.5°	1933.8	1467.8	568.1	440.9	435.3	447.5	406.6	368.3	354.4	347.5	345.1
30°	1922.9	1363.7	489.1	408.6	407.9	399.0	352.7	342.2	339.9	334.2	332.3
32.5°	1925.5	1258.4	438.6	380.2	382.5	341.5	327.0	329.3	327.3	321.4	318.7
35°	1947.3	1158.3	405.6	354.4	347.5	308.5	311.8	316.1	315.4	307.2	304.5
37.5°	1986.3	1063.5	383.8	332.9	303.2	292.0	297.3	303.9	302.2	296.6	294.6
40°	2027.3	974.3	366.0	316.1	277.1	280.7	285.4	289.0	290.6	292.3	291.0
42.5°	2067.2	881.2	344.2	298.9	266.2	270.2	272.2	275.8	284.7	291.0	290.6
45°	2091.0	793.7	321.7	274.5	257.6	259.9	258.6	265.9	276.8	287.0	287.3
47.5°	2117.4	725.6	303.9	252.0	249.4	251.0	247.1	254.3	264.2	276.8	278.1
50°	2149.5	685.0	289.7	234.2	238.1	238.1	237.1	243.7	257.6	272.2	274.8
52.5°	2185.8	677.1	277.8	221.3	226.9	226.6	227.6	237.5	252.7	266.9	269.2
55°	2230.1	698.5	264.9	211.7	216.0	217.3	220.6	231.9	244.7	260.9	261.9
57.5°	2281.6	742.1	254.6	204.1	206.1	210.4	215.7	225.9	239.8	257.6	258.6
58°	2290.2	751.4	253.0	203.5	204.1	209.1	215.0	224.9	238.8	258.3	259.3
60°	2290.5	782.1	249.4	200.5	196.5	204.8	211.4	221.3	237.1	260.6	262.9
62.5°	2209.3	781.8	246.7	196.2	188.6	198.8	206.4	218.0	235.5	266.2	270.8
65°	1945.4	710.4	234.2	189.6	182.3	193.5	202.1	215.7	240.1	290.6	293.6
67.5°	1521.6	582.3	210.7	180.3	174.1	188.3	199.5	215.3	245.1	296.3	298.2
70°	1006.0	435.6	185.0	169.8	165.5	182.0	200.8	226.6	239.5	284.4	279.1
72.5°	522.2	305.8	164.2	156.6	155.6	176.4	220.0	225.3	233.8	267.5	260.9
75°	274.1	212.4	146.0	142.0	143.7	175.0	259.6	219.3	226.6	256.0	268.5
77.5°	167.8	171.4	130.5	128.8	132.1	171.1	259.3	211.7	216.0	235.5	249.4
80°	112.3	139.0	118.6	118.9	121.2	156.6	232.8	199.8	203.1	222.6	236.8
82.5°	71.0	82.2	107.7	113.3	110.3	129.1	197.8	182.0	186.6	254.6	269.2
85°	36.0	51.5	93.5	109.0	99.4	90.5	160.5	159.5	161.8	183.6	191.9
87.5°	16.5	28.4	73.0	95.1	75.0	56.5	116.6	118.2	127.5	130.5	130.5
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)