

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: P193120

Luminaire Tested: **GAN-AF-02-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12680.6 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

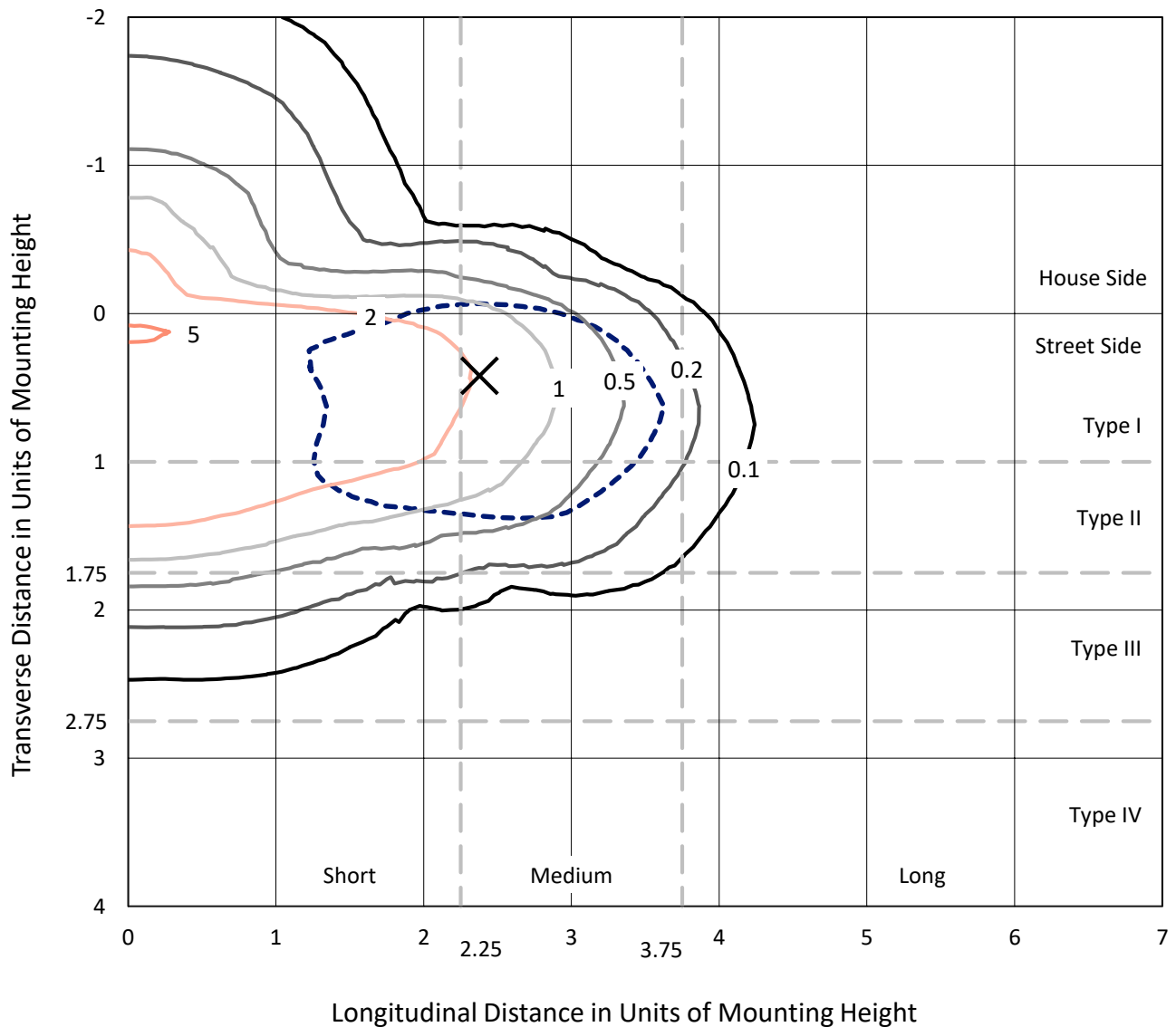
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

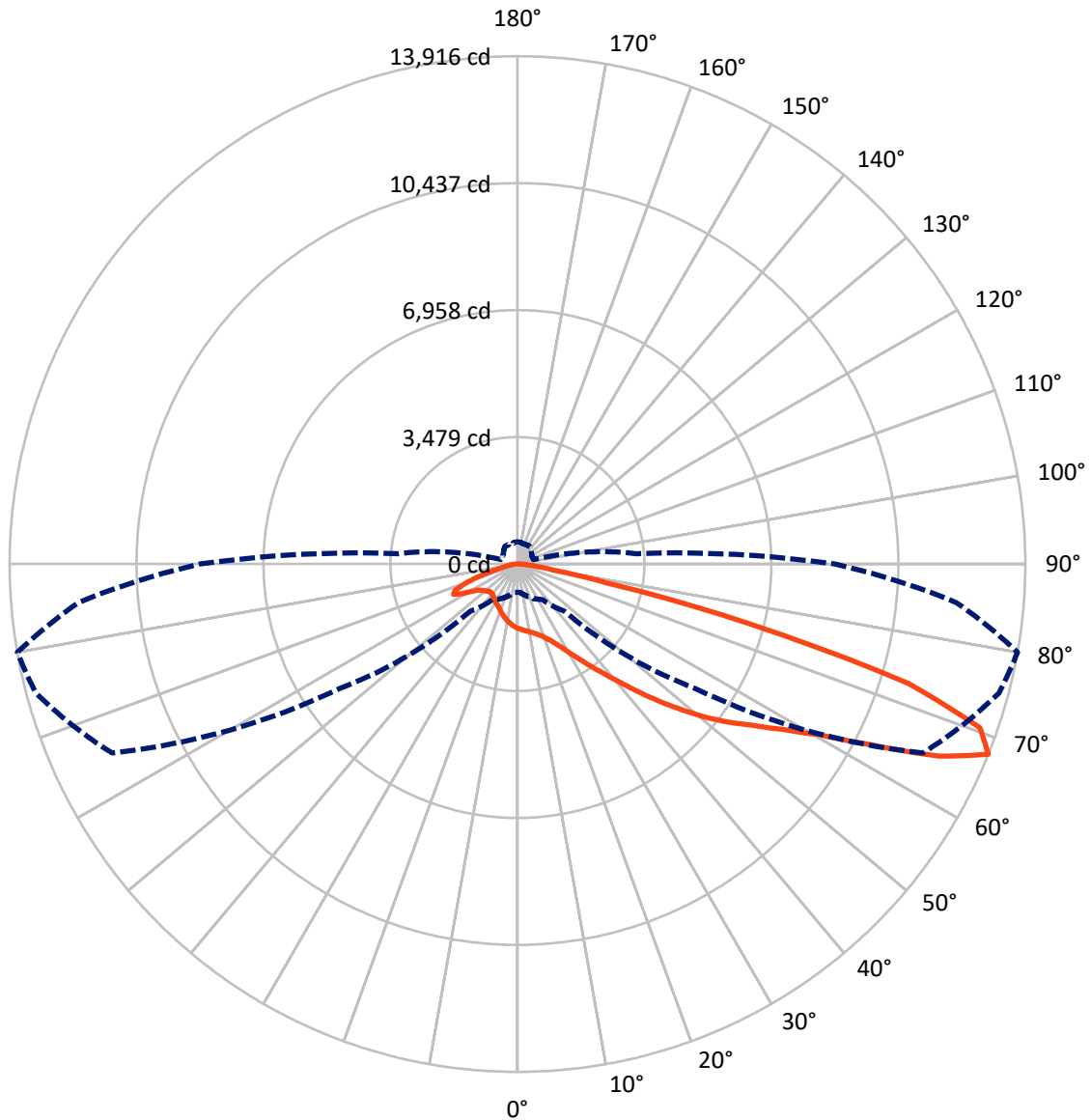
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2335.3	0.0	2335.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10345.3	0.0	10345.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	12680.6	0.0	12680.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	1.3
10°-20°	468.1	3.7
20°-30°	774.9	6.1
30°-40°	1267.5	10.0
40°-50°	2046.5	16.1
50°-60°	2954.6	23.3
60°-70°	3260.5	25.7
70°-80°	1502.9	11.9
80°-90°	243.1	1.9
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°	12680.6	100.0
0°-180°	12680.6	100.0



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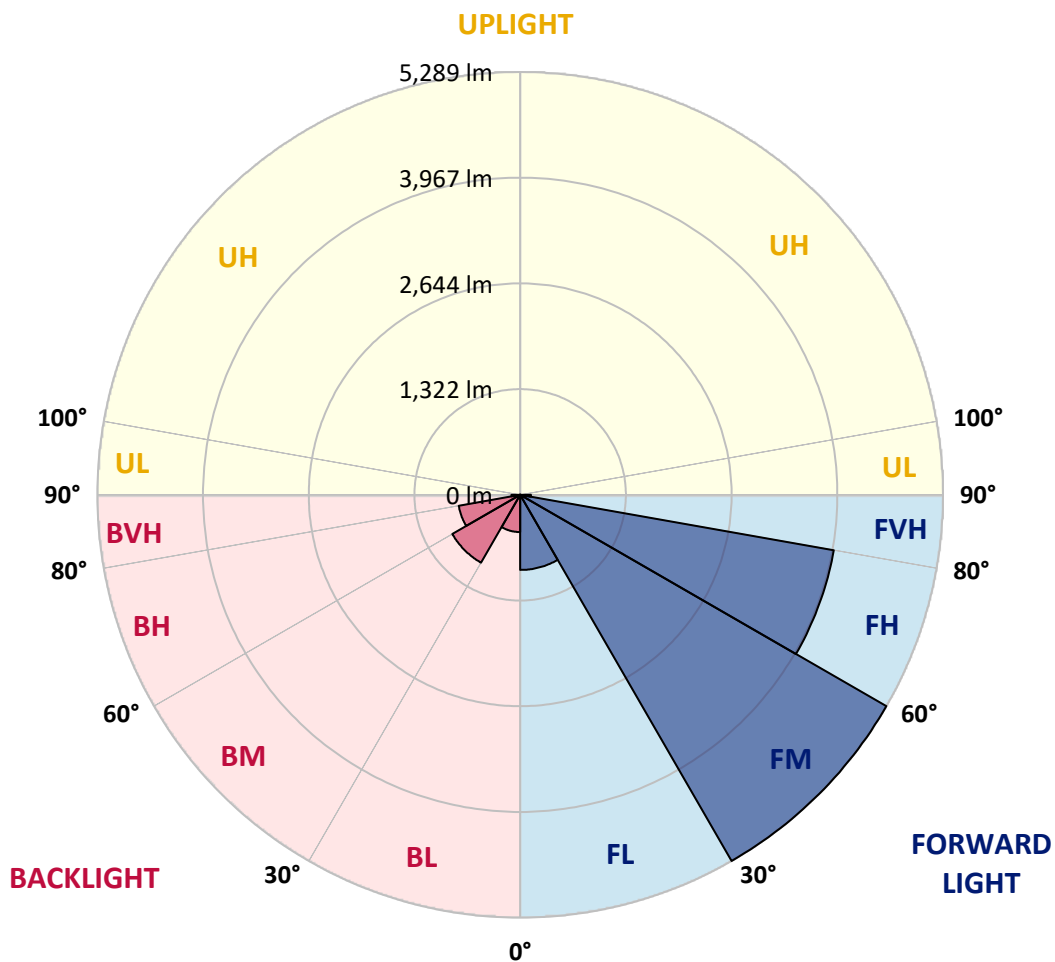
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.6	7.4			
FM	(30°-60°)	5288.8	41.7			
FH	(60°-80°)	3983.3	31.4			G2/5000
FVH	(80°-90°)	133.6	1.1			G2/225
BL	(0°-30°)	465.9	3.7	B1/500		
BM	(30°-60°)	979.8	7.7	B1/1000		
BH	(60°-80°)	780.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	109.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1927.2	1915.9	1917.8	1914.7	1905.3	1889.1	1871.6	1839.7	1806.6	1789.2	1775.5
5°	2088.2	2085.1	2080.8	2070.7	2047.0	2013.3	1971.5	1915.4	1854.6	1822.9	1792.3
7.5°	2208.6	2206.8	2201.2	2194.9	2171.8	2131.3	2068.3	1988.3	1900.3	1856.7	1809.2
10°	2218.7	2221.8	2226.1	2243.0	2246.2	2224.3	2159.9	2063.3	1947.8	1891.6	1830.9
12.5°	2133.8	2140.6	2157.6	2200.6	2246.2	2273.0	2240.0	2141.9	2003.3	1935.3	1858.5
15°	2021.4	2025.1	2045.8	2105.1	2186.9	2269.9	2301.1	2228.7	2075.1	1991.5	1899.7
17.5°	1973.3	1975.2	1989.6	2029.0	2105.1	2223.7	2335.4	2323.0	2163.2	2061.4	1950.3
20°	1948.9	1953.3	1974.0	2012.7	2060.7	2164.3	2340.5	2424.7	2268.0	2148.8	2013.8
22.5°	2018.2	2016.4	2023.9	2043.2	2083.8	2146.3	2336.6	2529.6	2401.6	2261.1	2096.9
25°	2179.9	2186.9	2173.7	2151.9	2165.0	2208.6	2356.6	2643.2	2568.9	2405.4	2205.6
27.5°	2410.4	2403.4	2384.1	2332.9	2306.0	2324.8	2422.9	2765.6	2776.9	2595.1	2349.2
30°	2640.0	2634.5	2615.6	2553.3	2498.3	2482.7	2551.4	2906.0	3024.7	2822.9	2525.2
32.5°	2878.6	2872.3	2854.8	2792.3	2726.2	2690.0	2734.3	3068.3	3316.8	3095.2	2732.5
35°	3172.6	3160.8	3123.8	3037.1	2972.2	2944.1	2964.6	3272.5	3653.8	3417.3	2984.1
37.5°	3449.1	3467.3	3429.7	3309.9	3225.7	3215.6	3238.8	3521.5	4017.3	3777.5	3273.1
40°	3727.0	3730.0	3696.3	3598.4	3511.6	3495.3	3553.3	3823.7	4446.1	4208.2	3624.5
42.5°	4014.0	4020.3	3963.5	3873.0	3809.4	3812.5	3878.6	4177.6	4938.1	4715.7	4029.1
45°	4354.3	4363.7	4301.3	4182.7	4124.6	4241.3	4213.9	4574.6	5477.3	5292.6	4493.5
47.5°	4710.1	4724.5	4677.1	4566.0	4493.5	4654.0	4549.1	5014.8	6058.0	5911.3	5003.5
50°	4904.3	4925.0	4971.1	4963.0	4947.4	4920.6	4923.0	5486.8	6656.6	6555.5	5528.0
52.5°	4800.1	4799.4	4968.0	5172.8	5391.3	5407.5	5378.8	5984.3	7216.0	7185.4	6021.9
55°	4323.1	4355.6	4611.0	5007.4	5604.1	5976.8	6061.7	6554.3	7765.4	7801.0	6523.1
57.5°	3529.1	3555.9	3900.4	4453.0	5317.0	6315.1	7033.1	7382.6	8379.6	8545.7	7190.5
60°	2393.5	2426.0	2791.1	3454.8	4544.1	6126.6	7957.7	8861.0	9115.1	9492.8	8126.8
62.5°	1406.5	1435.8	1733.6	2179.4	3199.4	5250.8	8363.5	10964.1	10283.1	10921.7	9555.2
65°	968.2	988.2	1133.0	1356.6	1838.5	3536.5	7860.2	12416.2	12080.4	12692.2	11211.4
67.5°	779.1	776.7	891.4	1043.8	1183.6	1823.5	5943.7	12252.0	13661.0	13916.4	12071.0
70°	641.8	639.2	717.3	843.4	945.7	1026.9	3237.5	10339.3	13338.9	13442.5	11279.4
72.5°	536.9	539.4	589.4	683.0	776.0	773.4	1422.8	7273.5	10493.5	11210.1	8991.5
75°	453.2	454.5	487.6	553.7	629.9	623.0	771.6	3940.4	6099.8	6598.6	4984.2
77.5°	385.8	387.1	408.3	445.1	499.5	496.9	563.1	1702.4	2544.5	2513.3	1704.9
80°	343.9	343.9	354.0	360.9	390.8	379.5	417.6	817.8	1075.6	993.2	680.4
82.5°	269.7	271.0	332.1	329.6	307.8	293.4	293.4	482.0	570.0	526.8	398.2
85°	151.7	151.1	214.1	258.4	271.0	206.6	204.8	269.7	310.3	273.4	193.0
87.5°	64.9	66.2	99.2	114.8	153.6	128.6	126.7	139.2	158.0	136.7	89.3
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°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1762.4	1746.1	1710.6	1666.2	1626.3	1600.0	1576.3	1541.9	1543.9	1520.2	1502.7
5°	1761.0	1727.4	1645.0	1547.0	1452.7	1384.7	1333.4	1287.3	1276.0	1254.2	1241.0
7.5°	1762.4	1707.4	1568.9	1412.0	1295.4	1209.2	1165.6	1141.2	1135.5	1128.1	1128.6
10°	1766.7	1689.2	1485.2	1286.0	1163.6	1106.8	1096.2	1103.7	1112.5	1115.0	1115.5
12.5°	1776.7	1673.1	1393.4	1173.7	1081.2	1063.7	1081.8	1107.5	1124.3	1132.5	1131.8
15°	1799.2	1660.5	1305.3	1085.6	1035.7	1045.1	1078.7	1115.0	1139.3	1150.5	1151.1
17.5°	1823.5	1642.5	1214.9	1018.2	1002.0	1025.7	1067.5	1110.0	1139.9	1152.4	1154.9
20°	1855.3	1620.0	1119.9	967.6	970.1	997.0	1036.4	1078.7	1111.8	1122.4	1127.4
22.5°	1897.2	1595.6	1036.9	926.4	933.9	954.5	985.1	1021.9	1050.6	1055.7	1060.1
25°	1953.3	1569.4	970.8	889.0	892.1	903.9	924.6	946.4	966.4	960.7	965.1
27.5°	2029.0	1547.0	921.4	854.6	849.1	851.5	862.2	868.9	879.6	864.0	865.9
30°	2117.6	1522.6	883.4	824.7	809.1	804.7	807.2	810.9	819.0	797.8	794.8
32.5°	2220.5	1493.2	847.8	798.4	776.7	767.9	769.0	779.1	810.2	797.1	790.4
35°	2340.5	1460.1	810.2	769.7	754.8	742.3	741.0	772.3	865.3	857.1	850.9
37.5°	2480.8	1427.2	772.9	737.3	738.5	724.8	720.4	756.0	875.8	844.0	839.6
40°	2659.4	1409.7	741.0	703.0	718.5	716.6	707.9	726.0	805.9	747.9	740.3
42.5°	2880.4	1412.0	717.3	666.2	694.8	714.8	701.1	701.7	730.4	686.7	679.8
45°	3153.2	1441.4	700.5	636.8	668.0	712.9	698.6	688.6	691.1	668.0	664.2
47.5°	3471.6	1502.0	688.6	612.4	642.3	706.1	697.9	684.8	679.3	666.7	663.6
50°	3825.6	1590.0	679.8	589.4	619.3	694.8	698.6	681.1	674.9	669.9	668.0
52.5°	4173.2	1690.6	666.7	569.4	601.2	681.1	700.5	677.3	670.6	666.7	664.9
55°	4560.9	1816.0	646.7	552.6	586.1	663.6	700.5	671.7	664.2	664.9	664.2
57.5°	5084.7	2018.9	623.0	538.1	568.0	642.3	688.6	665.5	656.1	656.7	657.4
60°	5903.2	2376.6	594.3	523.8	545.6	617.5	672.4	651.7	642.3	644.8	645.5
62.5°	7106.8	2901.6	556.9	502.6	521.9	590.5	649.9	634.2	624.9	631.2	631.2
65°	8357.8	3364.8	510.7	475.8	496.9	561.3	621.8	612.4	603.0	617.5	616.8
67.5°	8694.3	3261.2	464.5	446.4	472.0	528.9	588.1	583.1	578.1	603.0	601.8
70°	7723.5	2618.2	422.0	416.4	444.4	493.9	551.9	551.9	548.7	567.5	563.1
72.5°	5884.3	1856.7	381.5	384.6	413.2	455.7	512.5	516.9	511.9	521.2	517.6
75°	3150.1	1062.5	340.9	349.6	374.5	417.1	468.8	473.2	470.1	469.5	471.4
77.5°	1046.9	519.4	298.4	312.2	334.0	377.1	423.3	430.2	422.7	421.4	420.7
80°	466.3	326.4	251.7	269.7	289.0	331.5	375.2	380.8	372.7	383.9	369.7
82.5°	299.7	214.8	201.7	221.6	240.4	285.9	327.1	328.4	320.9	372.7	317.7
85°	145.5	133.0	151.7	169.8	186.1	224.7	271.0	271.5	252.8	230.3	222.3
87.5°	72.4	77.5	101.2	117.4	125.4	154.2	197.3	193.5	185.4	168.6	155.4
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)