

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: P318036

Luminaire Tested: **GAN-SA2B-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10448 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

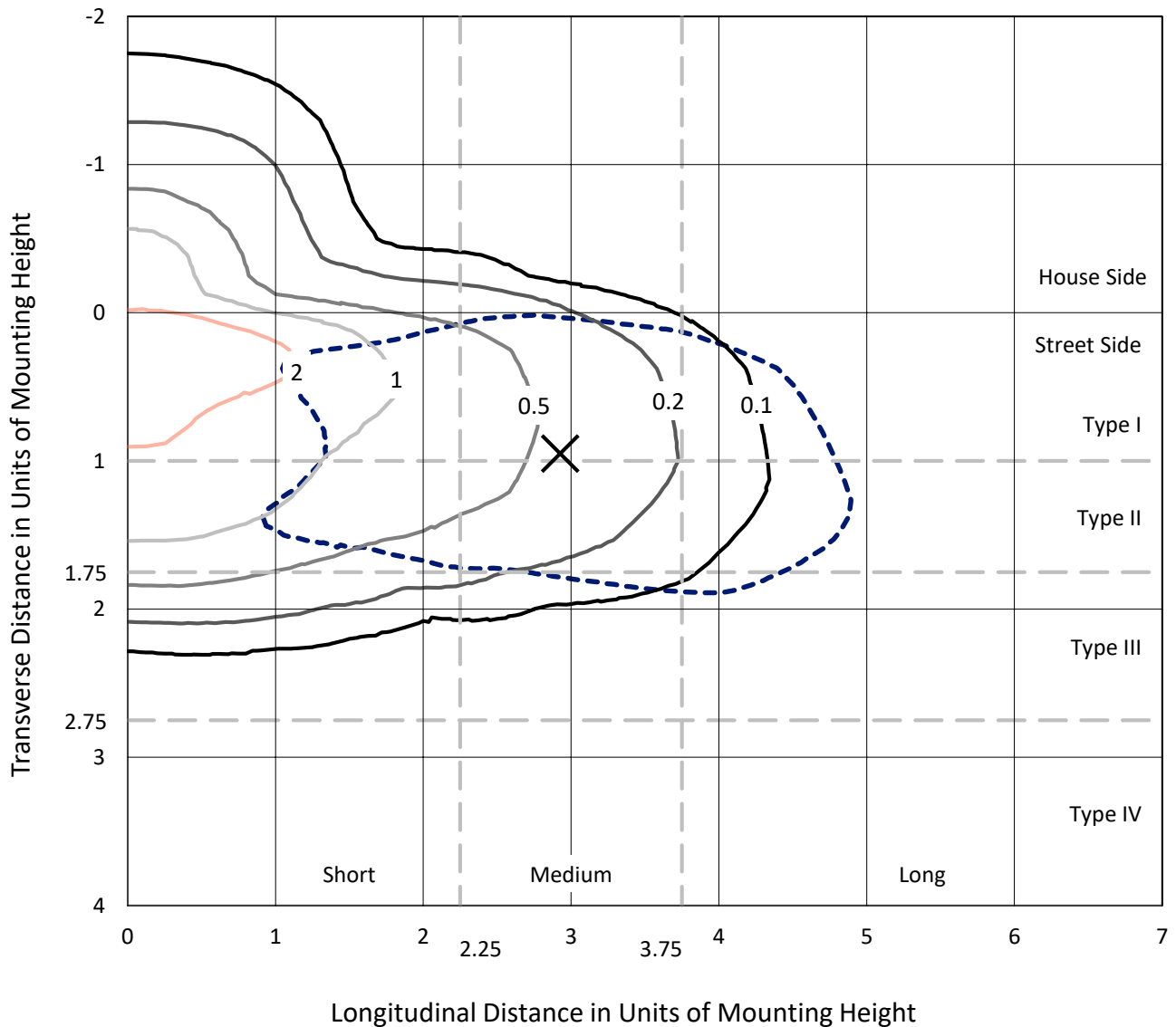
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

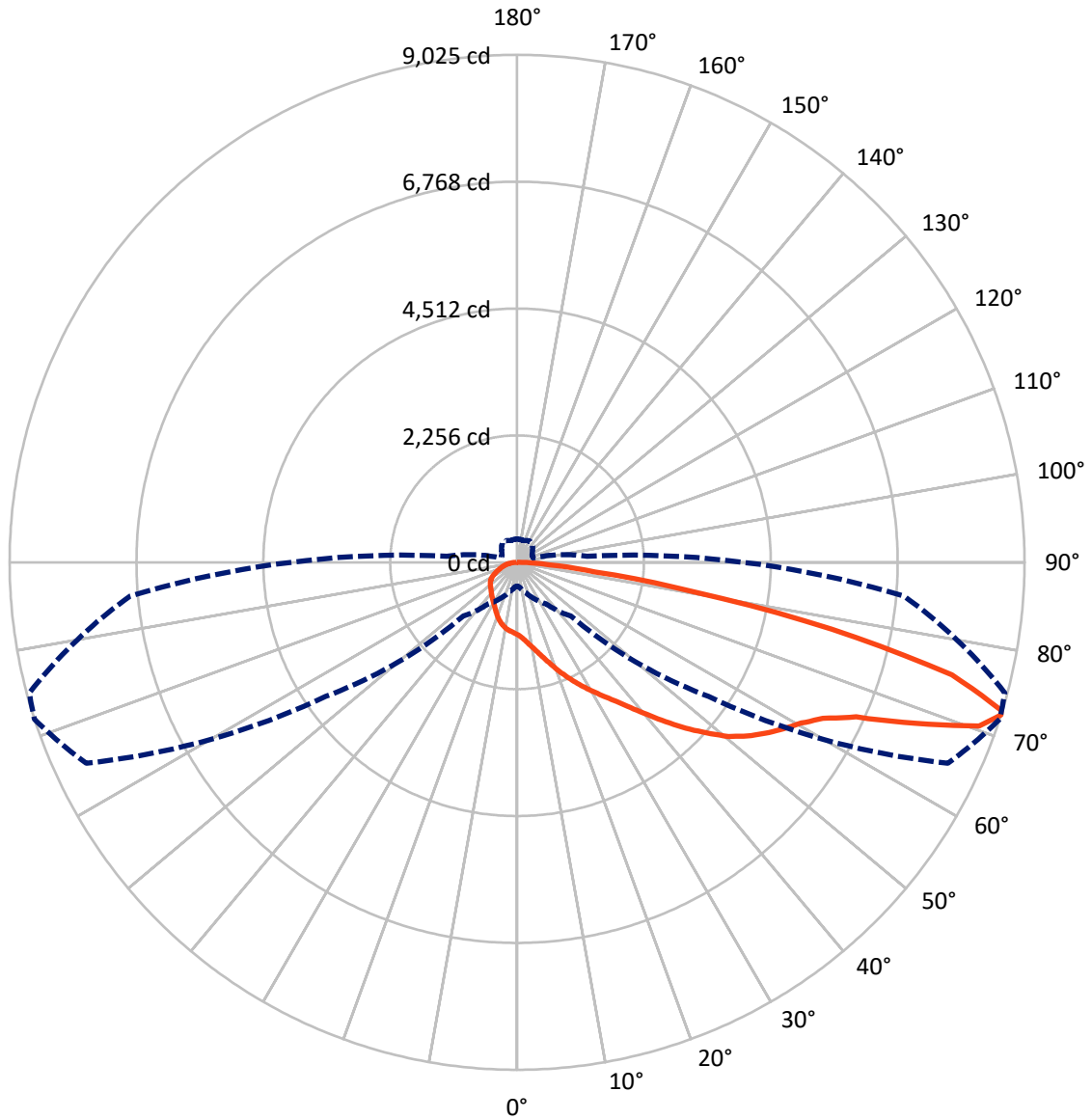
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.2	0.0	1938.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8509.8	0.0	8509.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	10448.0	0.0	10448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.2
10°-20°	416.2	4.0
20°-30°	729.3	7.0
30°-40°	1081.4	10.4
40°-50°	1581.6	15.1
50°-60°	2176.3	20.8
60°-70°	2422.8	23.2
70°-80°	1641.7	15.7
80°-90°	269.8	2.6
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°	10448.0	100.0
0°-180°	10448.0	100.0

Coefficient of Utilization

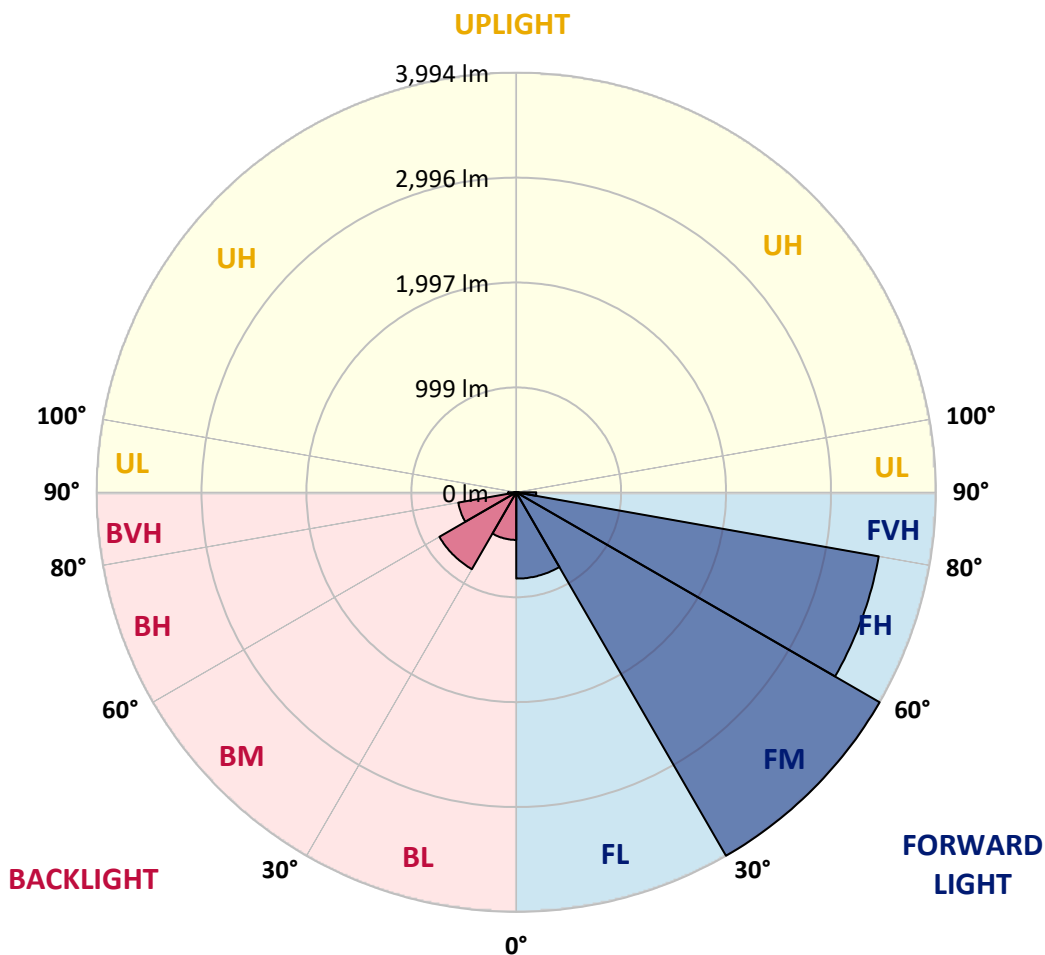


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.3	7.9			
FM (30°-60°)	3994.4	38.2			
FH (60°-80°)	3503.8	33.5			G2/5000
FVH (80°-90°)	190.3	1.8			G2/225
BL (0°-30°)	453.1	4.3	B1/500		
BM (30°-60°)	844.9	8.1	B1/1000		
BH (60°-80°)	560.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	79.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1419.9	1417.8	1410.2	1410.2	1395.8	1383.6	1360.6	1345.1	1326.7	1320.3	1298.7
5°	1557.3	1558.1	1548.7	1542.2	1521.0	1495.1	1455.9	1420.3	1384.7	1370.3	1326.0
7.5°	1672.8	1671.4	1668.9	1663.5	1643.7	1617.1	1564.2	1511.3	1458.8	1437.2	1360.9
10°	1746.9	1750.2	1752.3	1754.8	1746.6	1727.5	1677.5	1613.1	1544.4	1514.9	1402.7
12.5°	1784.3	1790.1	1800.2	1817.4	1831.1	1829.0	1792.6	1724.3	1642.6	1605.6	1454.8
15°	1806.3	1813.8	1829.7	1860.6	1899.1	1921.0	1911.3	1849.5	1758.4	1712.8	1518.5
17.5°	1820.0	1826.1	1850.5	1891.9	1949.1	2007.4	2032.9	1981.1	1889.4	1837.2	1591.5
20°	1829.3	1834.0	1864.6	1913.1	1987.2	2080.1	2151.3	2138.3	2033.7	1966.0	1667.8
22.5°	1850.2	1854.1	1883.3	1932.2	2014.2	2134.0	2265.3	2284.8	2185.8	2109.2	1749.5
25°	1908.5	1908.5	1932.9	1967.1	2044.1	2180.8	2361.7	2447.7	2341.2	2252.0	1825.0
27.5°	2019.6	2018.5	2027.5	2039.4	2097.7	2228.3	2447.7	2591.6	2502.4	2404.9	1898.4
30°	2151.3	2158.5	2159.6	2153.8	2181.1	2287.6	2527.2	2743.4	2664.6	2559.6	1973.6
32.5°	2320.7	2325.4	2320.0	2300.9	2297.0	2371.8	2605.3	2902.4	2840.2	2721.1	2042.3
35°	2535.9	2526.9	2510.0	2471.1	2434.0	2484.4	2694.5	3061.4	3037.3	2916.5	2136.9
37.5°	2766.5	2766.8	2746.0	2657.8	2606.7	2628.3	2817.5	3241.7	3275.9	3148.9	2258.1
40°	2951.4	2961.1	2974.0	2858.2	2792.0	2821.9	2974.0	3450.7	3557.9	3424.4	2416.1
42.5°	3080.5	3091.7	3128.4	3055.7	2987.0	3042.4	3158.2	3673.7	3874.5	3742.4	2601.0
45°	3217.2	3223.3	3249.2	3217.9	3174.0	3298.9	3365.8	3904.7	4209.4	4081.3	2807.8
47.5°	3361.1	3367.6	3394.2	3373.3	3350.3	3538.5	3582.4	4122.3	4530.3	4453.7	3028.7
50°	3538.8	3543.1	3568.3	3530.6	3537.8	3719.1	3775.9	4322.0	4866.7	4788.2	3250.3
52.5°	3781.3	3782.4	3817.3	3783.1	3749.3	3851.5	3942.5	4510.2	5130.4	5093.3	3471.9
55°	3971.2	3982.8	4097.2	4090.0	4070.5	3971.6	4081.7	4689.3	5365.6	5383.3	3707.2
57.5°	3850.0	3895.0	4126.7	4290.0	4449.0	4270.6	4269.8	4891.1	5584.4	5667.8	3965.9
60°	3371.9	3433.1	3774.5	4136.7	4634.3	4790.8	4660.5	5137.5	5805.2	5949.9	4290.0
62.5°	2408.1	2508.9	2971.5	3550.0	4380.3	5135.4	5455.6	5528.6	6105.6	6276.5	4711.2
65°	1217.4	1293.7	1681.5	2378.3	3499.6	4910.2	6319.7	6384.8	6627.6	6779.4	5359.9
67.5°	739.6	768.4	957.6	1322.8	2145.5	3824.8	6601.7	7811.9	7637.8	7718.4	6284.8
70°	545.0	566.2	684.2	878.5	1233.9	2244.5	5736.2	8830.4	8716.0	8707.0	6968.3
72°	424.5	440.0	544.3	709.8	902.2	1346.5	4157.6	8454.4	9024.6	8979.3	6905.7
72.5°	402.6	416.2	511.2	668.1	852.6	1220.6	3738.1	8200.8	9002.3	8981.8	6824.8
75°	316.9	326.7	378.5	516.6	667.3	692.5	2048.4	6355.3	7986.0	8318.1	6138.4
77.5°	262.3	263.7	291.0	375.9	520.2	489.6	1006.2	4409.4	5718.5	6083.7	4348.3
80°	213.7	215.5	228.4	263.7	393.6	362.3	477.7	2535.5	3201.7	3205.7	2067.8
82.5°	170.2	170.5	184.9	192.8	282.8	259.0	273.8	1190.4	1399.1	1345.8	743.2
85°	119.8	117.3	180.6	158.3	184.9	166.2	151.1	471.3	578.5	553.3	232.8
87.5°	39.9	41.4	80.2	102.5	107.9	94.3	67.3	180.6	218.4	216.6	73.7
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°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1291.9	1280.3	1263.4	1244.7	1230.0	1214.9	1203.7	1198.0	1191.5	1186.1	1192.6
5°	1305.5	1283.9	1248.0	1212.7	1186.8	1163.8	1147.2	1138.6	1130.7	1125.3	1126.0
7.5°	1327.8	1292.9	1232.5	1181.0	1145.1	1120.3	1103.3	1097.6	1092.6	1091.1	1092.9
10°	1351.6	1300.1	1212.0	1143.6	1102.6	1082.1	1074.6	1078.5	1082.1	1085.4	1089.0
12.5°	1378.6	1306.6	1182.1	1099.7	1064.9	1056.9	1064.5	1081.8	1094.4	1101.9	1106.6
15°	1413.8	1312.4	1147.6	1055.9	1032.5	1041.5	1067.0	1096.9	1118.8	1132.8	1135.0
17.5°	1446.2	1312.0	1103.3	1011.6	1006.2	1032.5	1071.0	1113.1	1142.6	1162.3	1166.3
20°	1479.6	1302.3	1051.9	968.4	979.6	1022.8	1072.8	1123.5	1159.1	1182.1	1187.5
22.5°	1510.9	1285.4	995.4	929.2	957.3	1009.8	1065.9	1117.4	1153.0	1171.7	1177.5
25°	1532.2	1255.9	938.2	896.1	937.5	994.0	1043.6	1085.0	1111.6	1121.0	1122.4
27.5°	1543.0	1217.4	884.3	867.4	917.0	968.1	1002.3	1022.8	1030.3	1029.6	1028.2
30°	1544.4	1166.7	837.9	844.0	893.3	929.9	946.1	942.2	932.5	915.9	917.4
32.5°	1539.7	1109.5	799.0	821.7	863.0	883.5	884.3	865.2	839.3	813.0	805.8
35°	1541.2	1053.3	764.8	796.5	826.3	835.3	827.1	799.0	763.7	729.9	722.7
37.5°	1557.0	1004.4	735.3	767.3	785.7	787.8	776.0	746.5	720.6	687.5	684.6
40°	1594.8	969.5	707.3	734.6	745.0	746.1	729.2	708.3	710.5	692.9	692.5
42.5°	1662.8	954.4	682.4	700.4	706.9	709.1	696.1	682.8	701.5	690.0	686.0
45°	1750.5	958.0	661.6	667.0	678.8	688.9	681.0	664.8	672.0	622.0	605.5
47.5°	1852.0	981.0	645.0	638.2	658.7	677.8	665.5	641.1	615.5	565.9	556.5
50°	1970.7	1016.6	629.9	609.8	636.8	662.7	650.4	615.5	577.0	552.9	549.7
52.5°	2094.4	1060.2	614.8	578.5	609.1	651.1	645.0	609.8	562.3	538.5	534.2
55°	2234.7	1104.1	595.7	542.1	579.2	645.7	642.5	588.9	551.1	537.8	534.6
57.5°	2409.2	1154.1	570.6	504.4	551.1	626.3	616.2	576.3	539.6	529.5	528.5
60°	2636.6	1227.8	534.2	464.1	517.0	596.5	594.3	558.0	521.3	514.1	512.6
62.5°	2977.6	1349.8	484.2	423.8	478.8	545.7	565.5	533.1	501.8	501.5	502.2
65°	3506.5	1533.2	429.9	388.5	440.3	502.9	532.1	507.6	482.1	489.3	490.3
67.5°	4119.5	1685.4	376.7	354.0	401.1	462.3	501.8	482.1	455.8	474.5	474.9
70°	4323.4	1549.4	329.9	319.8	360.5	423.1	469.1	454.0	427.4	446.1	444.3
72°	4023.4	1250.8	299.7	293.9	329.9	390.7	440.0	427.7	401.5	414.1	409.4
72.5°	3928.8	1192.6	292.1	287.4	321.6	382.4	432.4	421.3	395.0	405.8	401.5
75°	3504.7	1035.7	251.1	252.2	280.6	342.1	390.0	386.4	359.4	360.5	359.0
77.5°	2542.0	759.4	211.5	218.7	238.9	300.7	347.2	345.0	315.5	310.1	309.0
80°	1179.6	387.4	172.3	175.6	196.4	251.5	296.1	293.2	269.5	262.6	258.7
82.5°	404.0	184.2	129.5	131.7	152.2	202.5	256.9	255.1	235.3	222.0	213.7
85°	144.3	91.7	90.7	88.5	108.6	159.4	223.8	214.0	184.9	157.6	156.8
87.5°	46.8	39.2	46.8	46.4	63.3	107.9	162.6	138.5	134.2	111.5	109.4
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)