

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: P654383

Luminaire Tested: **GLAN-SA5B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14136.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

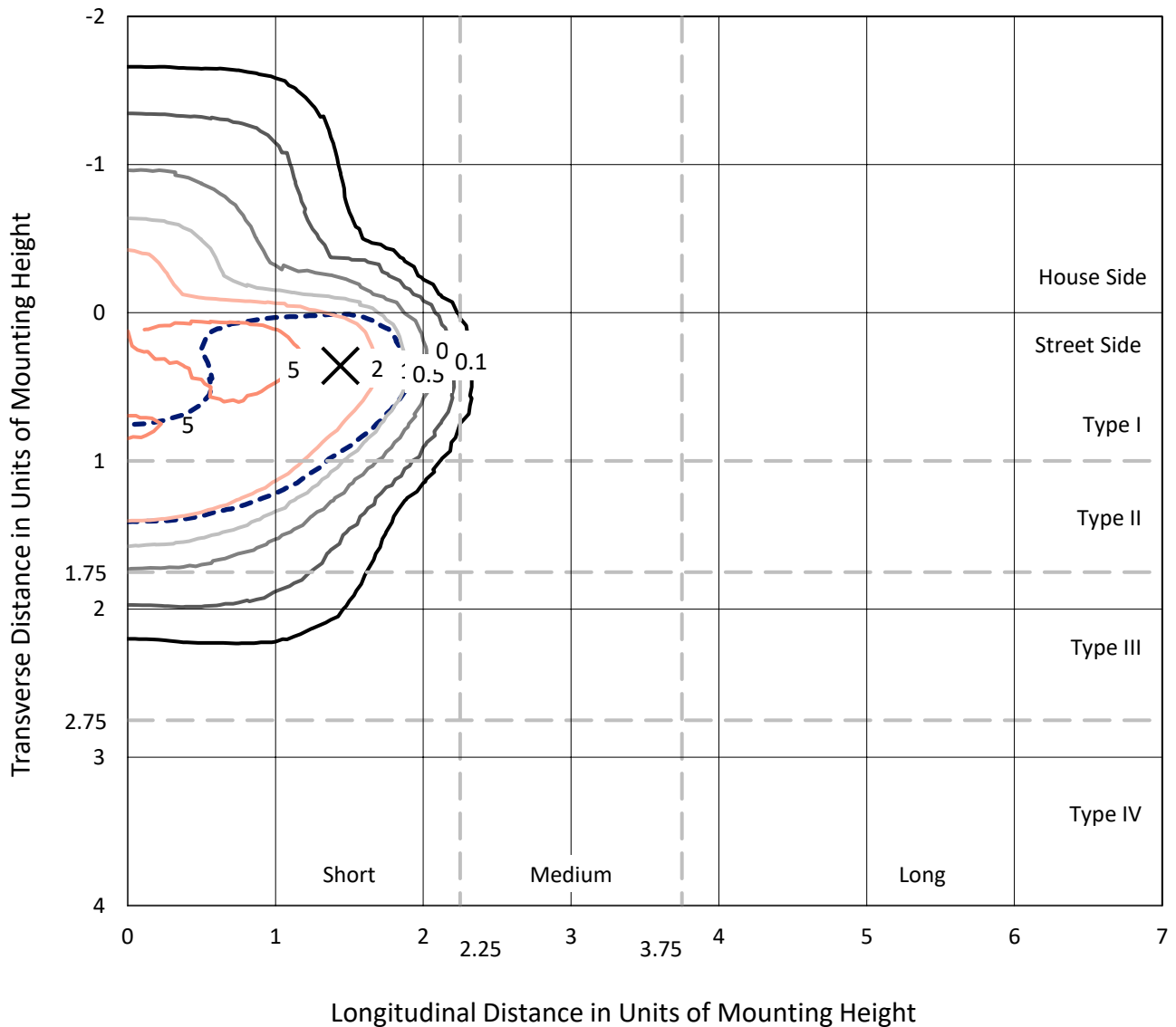
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

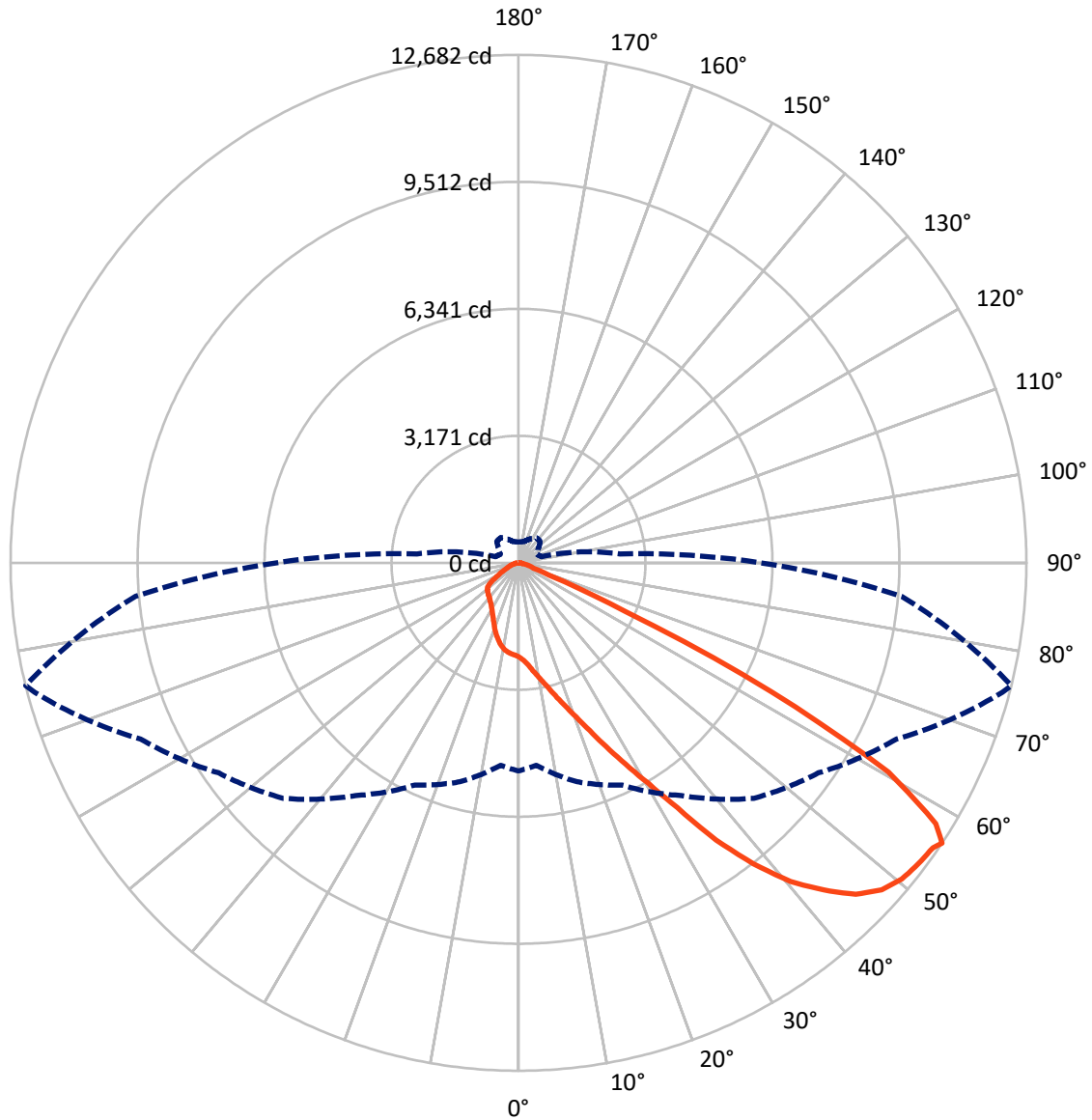
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.8	0.0	2220.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11915.6	0.0	11915.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	14136.4	0.0	14136.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.7
10°-20°	761.5	5.4
20°-30°	1380.8	9.8
30°-40°	2381.3	16.8
40°-50°	3868.4	27.4
50°-60°	4077.5	28.8
60°-70°	1245.8	8.8
70°-80°	159.7	1.1
80°-90°	24.3	0.2
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°	14136.4	100.0
0°-180°	14136.4	100.0

Coefficient of Utilization

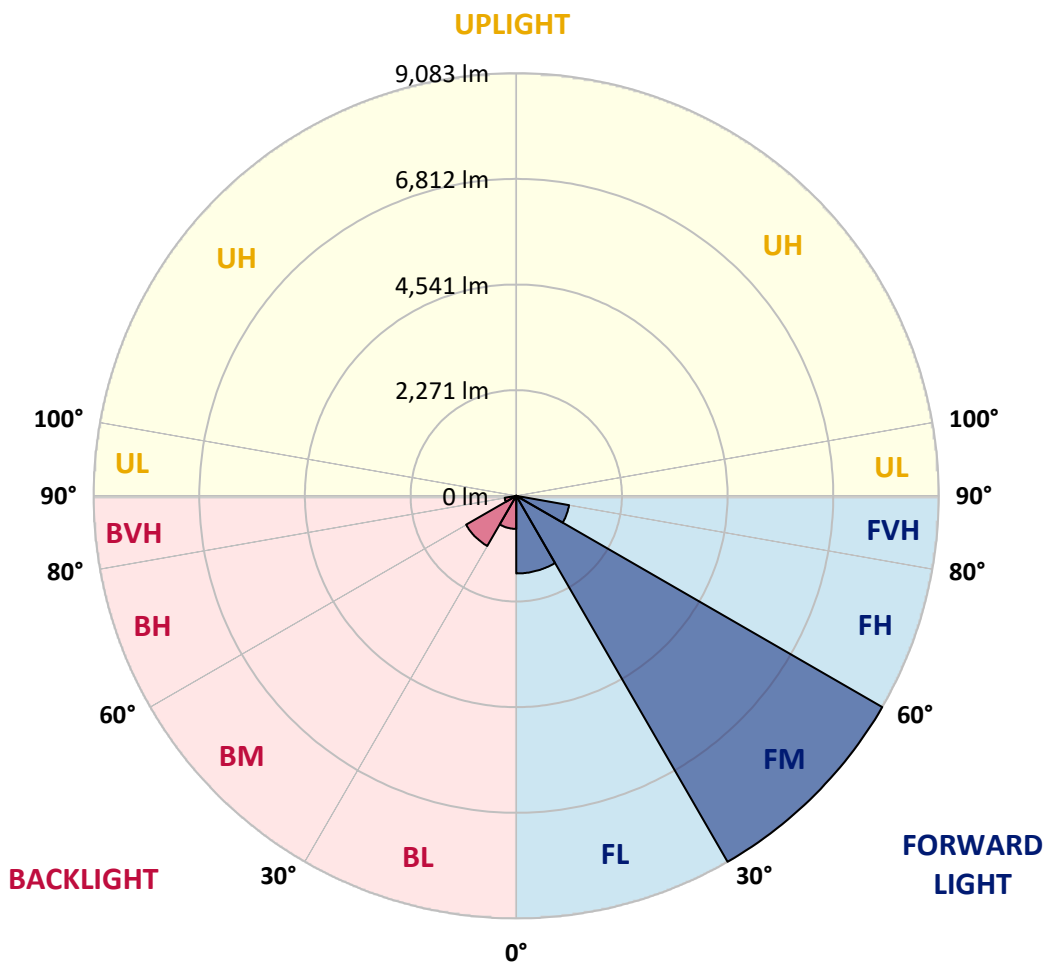


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.9	11.8			
FM (30°-60°)	9082.6	64.2			
FH (60°-80°)	1152.2	8.2			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	710.4	5.0	B2/1000		
BM (30°-60°)	1244.6	8.8	B2/2500		
BH (60°-80°)	253.4	1.8	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0
2.5°	2710.0	2647.5	2650.1	2644.9	2637.0	2608.4	2522.4	2509.4	2452.0	2436.4	2384.3
5°	3035.8	2981.0	3012.3	2965.4	2921.0	2895.1	2754.3	2689.2	2597.9	2564.1	2491.1
7.5°	3238.9	3213.0	3202.5	3205.1	3163.4	3098.2	3035.8	2892.5	2769.9	2743.8	2590.1
10°	3338.0	3322.4	3338.0	3330.2	3348.4	3356.3	3246.8	3160.8	2981.0	2936.7	2697.0
12.5°	3361.5	3392.8	3405.7	3439.6	3483.9	3559.5	3551.7	3434.4	3194.7	3166.0	2861.2
15°	3418.7	3444.8	3431.8	3486.5	3570.0	3697.6	3765.3	3747.1	3489.1	3437.0	3051.4
17.5°	3470.9	3424.0	3468.3	3577.7	3661.1	3856.6	4020.7	4096.3	3809.6	3749.7	3226.0
20°	3541.3	3528.2	3520.4	3575.1	3723.7	3984.2	4310.0	4448.0	4169.3	4106.7	3476.1
22.5°	3754.9	3757.5	3752.3	3671.6	3778.4	4072.8	4562.8	4904.0	4599.2	4547.1	3760.1
25°	4036.4	4002.5	3976.4	3911.2	3898.3	4153.6	4818.1	5461.7	5115.1	5078.6	4067.7
27.5°	4333.4	4333.4	4255.2	4195.3	4111.9	4354.3	5052.6	6003.7	5737.9	5688.4	4336.0
30°	4656.5	4674.8	4664.4	4536.7	4484.5	4573.1	5292.3	6696.9	6451.9	6389.4	4779.0
32.5°	5133.4	5094.3	5138.6	5031.8	4878.1	4956.2	5670.2	7317.0	7379.6	7291.0	5360.1
35°	5764.0	5740.5	5711.9	5537.3	5354.9	5417.4	6204.4	8080.5	8544.4	8500.1	5946.4
37.5°	6329.5	6316.4	6293.0	6173.1	5962.0	6037.6	6811.5	8875.3	9680.5	9534.6	6775.0
40°	6923.5	6993.9	6918.3	6811.5	6618.7	6785.4	7525.5	9347.0	10636.8	10459.6	7408.2
42.5°	7728.7	7674.0	7707.9	7512.5	7408.2	7590.6	8242.1	9818.6	11379.4	11168.4	8080.5
45°	8586.0	8588.6	8497.5	8434.9	8163.9	8362.0	8682.5	10079.1	11971.0	11806.8	8588.6
47.5°	9135.9	9133.3	9232.2	9331.3	9052.4	8857.1	8982.1	10326.7	12275.8	12200.3	8773.6
50°	9049.9	9075.9	9203.7	9573.6	9719.5	9456.4	9263.5	10253.7	12413.9	12406.1	8932.6
52.5°	7872.1	7958.0	8171.7	8705.9	9440.7	9766.4	9558.0	10389.2	12481.7	12494.7	9169.8
55°	5993.3	6040.2	6446.7	7095.5	7908.5	9023.8	9440.7	10496.1	12533.8	12557.2	9456.4
56°	5198.6	5073.4	5659.8	6121.0	7092.9	8312.4	9143.7	10412.7	12502.6	12682.4	9599.7
57.5°	3924.3	3840.9	4315.2	4891.1	5826.5	7113.8	8221.3	10019.3	12291.5	12288.9	9393.8
60°	2386.9	2303.5	2668.3	3007.1	3530.9	4380.3	5555.6	7978.9	10391.8	10610.7	7606.3
62.5°	1420.1	1472.3	1831.9	2037.7	2207.1	2295.7	2874.2	4742.5	6934.0	7090.3	4719.1
65°	945.9	964.1	1235.2	1573.9	1649.5	1313.3	1170.0	1920.4	3007.1	2910.6	1946.5
67.5°	583.7	625.4	828.6	1183.0	1310.7	958.9	555.1	716.6	828.6	828.6	562.9
70°	354.4	375.3	552.5	805.2	899.0	617.5	403.9	403.9	398.7	390.9	336.1
72.5°	169.4	182.4	281.4	414.4	422.1	325.7	312.7	341.4	333.5	330.9	278.8
75°	73.0	78.2	99.0	130.3	148.5	138.1	190.2	245.0	252.7	245.0	200.7
77.5°	23.5	26.1	36.5	46.9	49.5	60.0	80.8	101.6	117.2	109.4	99.0
80°	2.6	5.2	10.4	23.5	36.5	46.9	60.0	67.8	75.6	75.6	70.4
82.5°	2.6	2.6	10.4	20.9	33.9	44.3	57.4	65.2	75.6	78.2	73.0
85°	0.0	2.6	7.8	18.2	28.7	28.7	26.1	26.1	18.2	18.2	18.2
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0	2353.0
2.5°	2373.9	2368.7	2298.3	2254.0	2230.6	2183.7	2155.0	2134.1	2118.5	2100.2	2102.8
5°	2405.2	2386.9	2269.6	2188.9	2092.4	2040.4	1996.0	1959.5	1936.1	1930.9	1920.4
7.5°	2493.7	2397.4	2220.2	2074.2	1951.7	1899.7	1860.5	1837.1	1847.5	1824.0	1842.3
10°	2561.5	2418.1	2160.2	1949.1	1826.7	1787.5	1766.7	1784.9	1811.0	1800.6	1787.5
12.5°	2644.9	2439.0	2063.8	1829.3	1714.6	1686.0	1722.5	1756.3	1808.4	1829.3	1803.2
15°	2738.7	2462.4	1941.3	1691.2	1618.2	1641.6	1704.2	1764.1	1816.2	1842.3	1857.9
17.5°	2853.3	2454.6	1821.4	1581.7	1527.0	1594.7	1670.3	1725.1	1803.2	1842.3	1831.9
20°	2960.2	2428.6	1688.6	1472.3	1474.9	1537.4	1599.9	1688.6	1730.3	1782.3	1764.1
22.5°	3061.8	2381.7	1550.5	1396.7	1396.7	1493.1	1524.4	1581.7	1618.2	1644.2	1641.6
25°	3205.1	2293.1	1435.8	1323.7	1355.0	1417.5	1443.6	1461.8	1446.2	1467.0	1469.6
27.5°	3306.7	2201.9	1342.0	1258.6	1315.9	1362.8	1355.0	1344.6	1308.1	1279.4	1297.7
30°	3416.1	2095.0	1261.2	1214.3	1245.6	1287.2	1255.9	1224.7	1167.4	1120.5	1123.1
32.5°	3572.5	2045.6	1190.9	1162.2	1203.9	1209.1	1175.2	1128.3	1071.0	1026.7	1024.1
35°	3864.4	2014.3	1130.9	1128.3	1136.1	1138.7	1104.8	1047.5	1024.1	987.6	1000.6
37.5°	4156.2	1998.6	1089.2	1078.8	1076.2	1078.8	1039.7	985.0	1029.3	1026.7	1031.9
40°	4528.9	2069.0	1029.3	1016.3	1018.9	1018.9	969.3	953.7	1031.9	1039.7	1042.3
42.5°	4906.6	2157.6	990.2	948.5	958.9	958.9	932.8	914.6	969.3	917.2	909.5
45°	5235.0	2287.9	948.5	880.8	906.9	919.8	912.1	880.8	846.9	758.2	758.2
47.5°	5341.9	2402.6	899.0	815.6	836.5	893.8	870.4	805.2	745.3	672.3	667.1
50°	5529.5	2527.6	859.9	740.1	784.3	854.7	831.2	766.1	698.4	646.2	648.8
52.5°	5722.3	2670.9	786.9	651.4	706.2	823.4	823.4	750.4	646.2	609.7	604.5
55°	6011.6	2665.7	656.7	534.2	630.6	776.5	789.5	672.3	578.5	549.8	549.8
56°	6053.3	2545.9	591.5	500.3	596.7	763.5	766.1	651.4	552.5	521.2	521.2
57.5°	5740.5	2298.3	518.6	458.6	555.1	740.1	742.7	633.2	531.6	487.3	482.1
60°	4416.8	1555.7	432.5	409.1	502.9	667.1	680.1	575.9	466.4	432.5	429.9
62.5°	2493.7	862.5	380.5	370.0	432.5	568.1	607.1	502.9	396.1	377.9	383.1
65°	1138.7	474.2	320.5	299.6	349.2	437.7	489.9	414.4	325.7	304.9	304.9
67.5°	416.9	323.1	273.6	237.2	245.0	284.0	317.9	268.4	216.3	185.0	192.8
70°	297.0	271.0	239.8	205.9	190.2	185.0	182.4	151.1	106.8	83.3	88.6
72.5°	239.8	224.1	200.7	174.6	148.5	125.1	106.8	78.2	49.5	33.9	31.3
75°	172.0	164.2	145.9	125.1	104.2	88.6	73.0	49.5	26.1	13.0	13.0
77.5°	88.6	88.6	86.0	78.2	65.2	52.1	41.7	28.7	15.6	5.2	5.2
80°	67.8	73.0	75.6	67.8	60.0	46.9	33.9	20.9	10.4	2.6	2.6
82.5°	65.2	75.6	80.8	70.4	60.0	44.3	33.9	20.9	10.4	2.6	2.6
85°	15.6	15.6	23.5	26.1	33.9	36.5	28.7	18.2	7.8	2.6	2.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	0.0
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)