

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: P455675

Luminaire Tested: **GLAN-SA6D-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34053 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 368
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

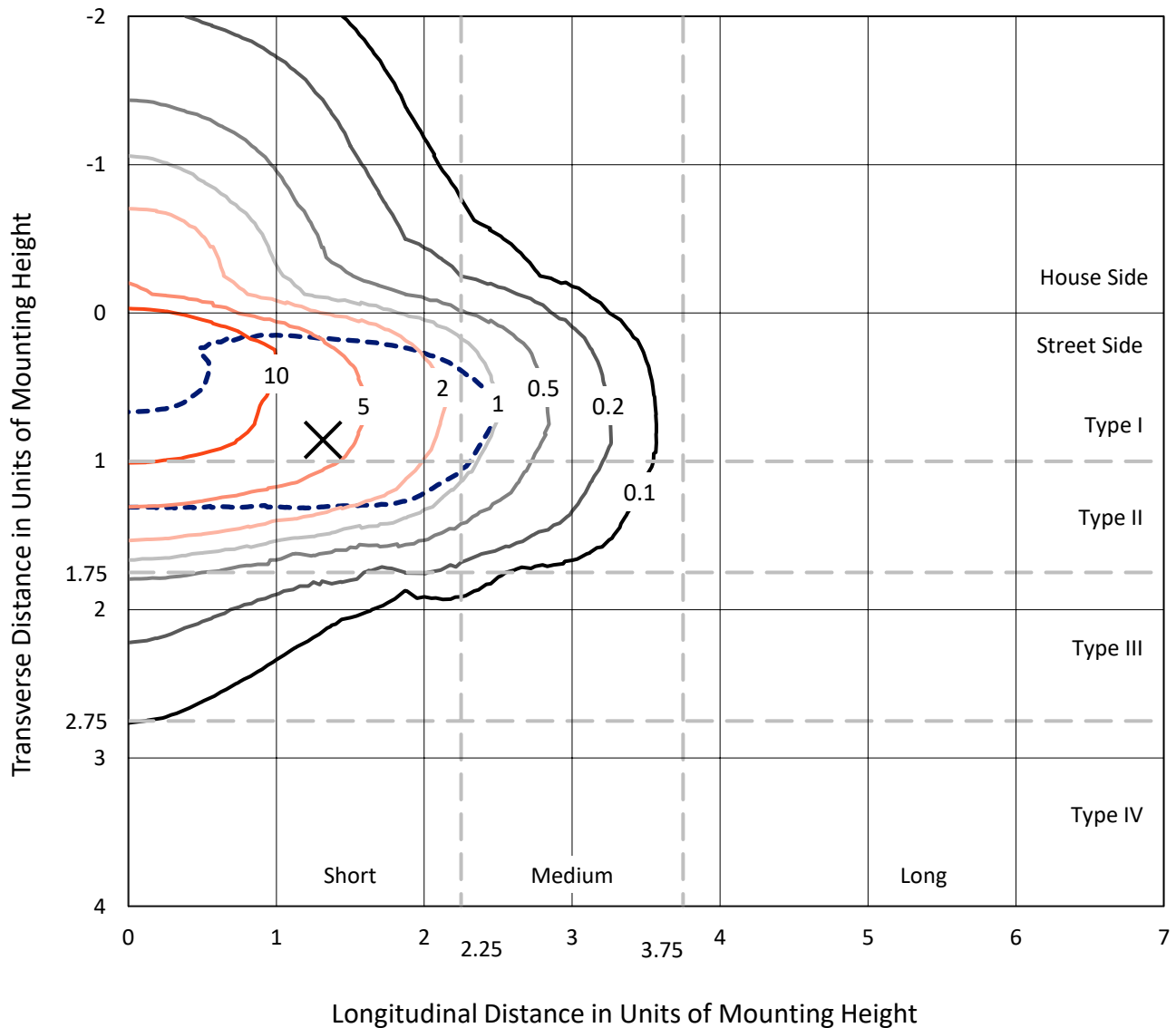


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

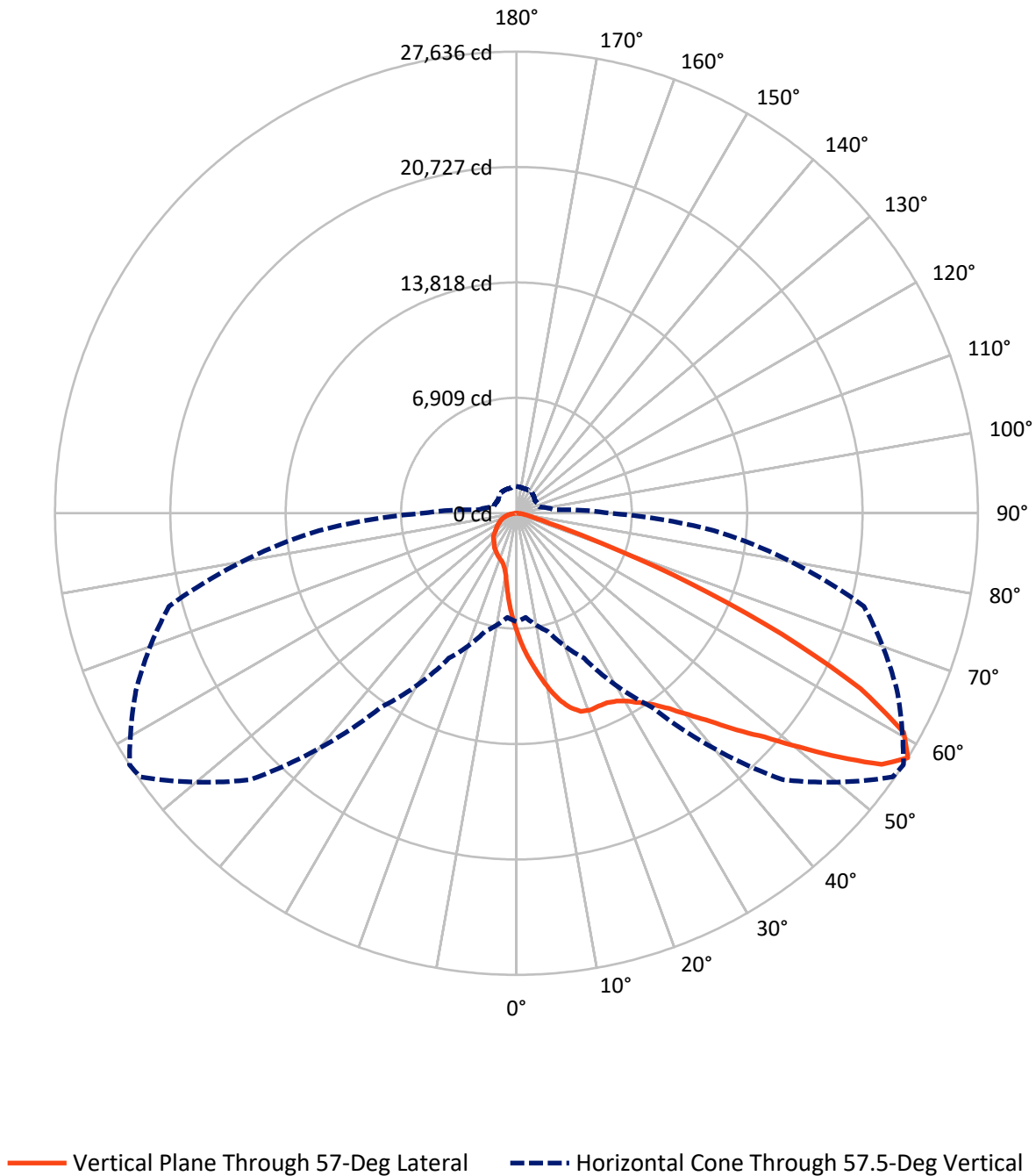


Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5178.5	0.0	5178.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28874.5	0.0	28874.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	34053.0	0.0	34053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.6	2.0
10°-20°	2026.4	6.0
20°-30°	3364.8	9.9
30°-40°	5068.3	14.9
40°-50°	7609.6	22.3
50°-60°	8529.5	25.0
60°-70°	4991.8	14.7
70°-80°	1476.6	4.3
80°-90°	298.4	0.9
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°	34053.0	100.0
0°-180°	34053.0	100.0

Coefficient of Utilization



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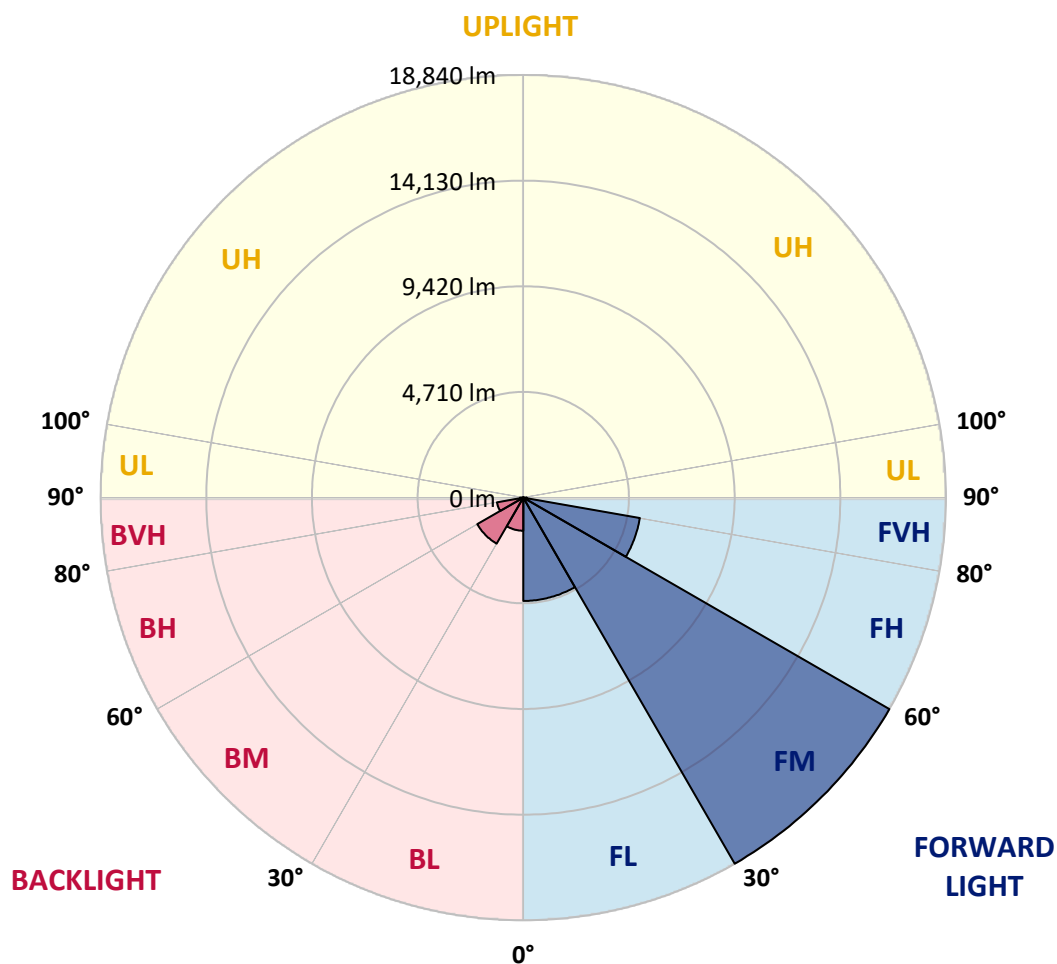
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4603.2	13.5			
FM	(30°-60°)	18839.6	55.3			
FH	(60°-80°)	5276.8	15.5			G3/7500
FVH	(80°-90°)	154.8	0.5			G2/225
BL	(0°-30°)	1475.5	4.3	B3/2500		
BM	(30°-60°)	2367.8	7.0	B2/2500		
BH	(60°-80°)	1191.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	143.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1
2.5°	8889.6	8792.6	8716.2	8649.1	8561.5	8324.8	8088.0	8084.3	7896.0	7605.2	7307.0
5°	10337.9	10207.4	10224.2	10015.4	9806.7	9463.7	8962.3	8936.2	8535.4	7991.1	7437.5
7.5°	11281.1	11283.0	11230.8	11111.5	10885.9	10496.4	9927.8	9799.2	9241.9	8416.1	7586.6
10°	11232.6	11283.0	11370.6	11473.1	11542.1	11350.1	10831.9	10675.3	9950.2	8930.6	7752.5
12.5°	10587.7	10666.0	10790.9	11048.1	11463.8	11780.7	11603.6	11476.8	10770.4	9443.2	7935.2
15°	10185.1	10231.7	10300.6	10474.0	10921.3	11680.0	12138.6	12071.5	11543.9	10022.9	8140.2
17.5°	10062.0	10108.6	10131.0	10237.3	10556.0	11333.3	12349.2	12468.5	12229.9	10556.0	8347.1
20°	10185.1	10207.4	10207.4	10270.8	10520.6	11130.1	12339.9	12580.3	12792.8	11195.4	8541.0
22.5°	10507.5	10516.9	10503.8	10526.2	10712.6	11186.0	12252.3	12550.5	13247.7	11737.8	8692.0
25°	11031.3	11046.2	10960.5	10908.3	11044.4	11432.1	12300.7	12574.7	13603.7	12256.0	8792.6
27.5°	11626.0	11644.6	11540.2	11419.0	11482.4	11735.9	12490.9	12736.9	13870.2	12766.7	8856.0
30°	12354.8	12362.2	12187.0	12041.6	12000.6	12188.9	12815.2	13044.5	14202.0	13368.8	8951.1
32.5°	13100.4	13156.3	12930.8	12725.7	12656.8	12714.5	13294.3	13516.1	14597.2	14015.6	9103.9
35°	14114.4	14123.8	13853.5	13603.7	13376.3	13450.8	13907.5	14067.8	15143.4	14763.1	9320.1
37.5°	15380.1	15465.9	15093.0	14627.0	14347.4	14239.3	14649.4	14824.6	15909.5	15680.2	9646.4
40°	16785.6	16817.3	16498.5	16207.7	15697.0	15383.8	15667.2	15857.3	16854.6	16774.4	10024.8
42.5°	17669.1	17738.1	17762.3	17732.5	17348.5	16822.9	16931.0	17020.5	17973.0	17801.5	10412.5
45°	17967.4	18069.9	18416.6	19151.0	19192.0	18673.8	18422.2	18507.9	19192.0	18837.9	10783.4
47.5°	17473.4	17648.6	18288.0	19794.1	20921.9	20961.0	20202.4	20014.1	20303.0	19697.2	11051.8
50°	16196.6	16233.8	17212.4	19393.4	21732.7	23147.5	22362.8	22012.3	21358.1	20332.8	11236.4
52.5°	14220.7	14263.6	15083.7	17531.2	21233.2	24676.0	24890.4	24264.1	22429.9	20826.8	11357.5
55°	10556.0	10803.9	11706.1	14071.6	18865.8	24532.5	26899.8	26543.8	23725.4	21218.2	11547.7
57.5°	6490.6	6263.1	7333.1	9573.7	14189.0	22560.4	27520.5	27636.1	25151.4	21546.3	11866.4
60°	2986.2	3030.9	3472.7	4937.8	8649.1	17648.6	25921.2	26651.9	25939.8	21535.1	11946.6
62.5°	2057.9	2016.9	1905.0	2167.9	3944.3	11161.8	21894.9	23132.6	24359.1	20865.9	11627.8
65°	1839.8	1798.8	1582.6	1509.9	1811.8	4865.1	15916.9	17479.0	20509.9	19177.1	10833.7
67.5°	1718.6	1662.7	1439.0	1297.4	1293.6	1936.7	9385.4	11266.2	15212.3	16213.3	9387.3
70°	1591.9	1547.1	1325.3	1168.7	1101.6	1217.2	4125.1	5400.1	9877.5	11683.7	7312.6
72.5°	1465.1	1412.9	1213.5	1045.7	958.1	911.5	1580.7	2056.0	5580.9	7005.0	4483.0
75°	1280.6	1254.5	1084.9	946.9	851.9	736.3	1002.8	1144.5	2669.3	3217.3	2249.9
77.5°	1120.3	1092.3	963.7	827.6	758.7	598.4	712.1	777.3	1125.9	1304.8	1015.9
80°	820.2	848.1	812.7	730.7	676.6	469.7	479.1	533.1	669.2	740.0	620.7
82.5°	520.1	572.3	626.3	562.9	512.6	370.9	331.8	352.3	456.7	484.6	275.9
85°	218.1	221.8	363.5	343.0	292.7	220.0	199.5	210.6	244.2	255.4	128.6
87.5°	83.9	82.0	128.6	119.3	91.3	63.4	63.4	70.8	96.9	89.5	41.0
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°	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1	7154.1
2.5°	7178.4	7046.0	6783.2	6457.0	6218.4	5950.0	5713.3	5543.6	5480.2	5450.4	5394.5
5°	7172.8	6911.8	6367.5	5797.1	5338.6	4868.8	4471.8	4214.6	4192.2	4020.7	4003.9
7.5°	7174.6	6775.7	5909.0	5070.2	4371.1	3890.2	3562.2	3476.4	3373.9	3347.8	3360.8
10°	7180.2	6602.4	5416.9	4350.6	3674.0	3359.0	3236.0	3202.4	3206.1	3217.3	3219.2
12.5°	7187.7	6434.6	4906.1	3804.5	3282.6	3152.1	3139.0	3168.9	3200.5	3224.8	3230.4
15°	7197.0	6242.6	4408.4	3364.6	3086.8	3075.6	3118.5	3168.9	3213.6	3249.0	3254.6
17.5°	7185.8	6019.0	3990.9	3094.3	2978.7	3032.8	3103.6	3167.0	3208.0	3241.5	3245.3
20°	7159.7	5769.2	3588.3	2904.2	2911.6	2999.2	3075.6	3135.3	3180.0	3196.8	3209.9
22.5°	7059.1	5470.9	3237.8	2756.9	2831.5	2952.6	3044.0	3079.4	3029.0	2993.6	3003.0
25°	6887.6	5083.2	2911.6	2637.6	2758.8	2887.4	2980.6	2894.8	2853.8	2838.9	2846.4
27.5°	6673.2	4658.2	2665.6	2512.7	2665.6	2814.7	2788.6	2773.7	2755.0	2730.8	2736.4
30°	6442.1	4242.5	2456.8	2415.8	2564.9	2650.7	2661.8	2686.1	2665.6	2628.3	2643.2
32.5°	6227.7	3851.1	2298.3	2333.8	2494.1	2481.0	2564.9	2592.9	2497.8	2372.9	2378.5
35°	6045.0	3487.6	2179.1	2253.6	2372.9	2378.5	2462.4	2365.5	2262.9	2203.3	2207.0
37.5°	5907.1	3204.3	2100.8	2184.6	2218.2	2289.0	2244.3	2194.0	2180.9	2139.9	2141.8
40°	5825.1	2956.4	2050.4	2130.6	2125.0	2173.5	2029.9	2080.3	2098.9	2085.8	2087.7
42.5°	5743.1	2781.1	1998.2	2056.0	2054.2	1959.1	1927.4	1970.3	2018.7	2024.3	2020.6
45°	5677.8	2645.1	1944.2	1942.3	1979.6	1830.5	1821.2	1847.3	1916.2	1949.8	1947.9
47.5°	5605.1	2531.4	1862.2	1810.0	1821.2	1750.3	1735.4	1746.6	1830.5	1884.5	1899.4
50°	5513.8	2417.6	1759.6	1688.8	1642.2	1675.8	1679.5	1681.4	1765.2	1826.7	1839.8
52.5°	5441.1	2331.9	1642.2	1590.0	1534.1	1608.7	1636.6	1640.3	1690.7	1741.0	1750.3
55°	5484.0	2283.4	1526.6	1489.4	1439.0	1539.7	1593.7	1601.2	1612.4	1649.7	1655.3
57.5°	5612.6	2294.6	1433.4	1385.0	1347.7	1457.7	1549.0	1554.6	1547.1	1591.9	1599.3
60°	5651.7	2289.0	1364.5	1269.4	1247.0	1370.1	1483.8	1495.0	1493.1	1558.3	1571.4
62.5°	5487.7	2218.2	1295.5	1172.5	1157.6	1280.6	1392.4	1437.2	1446.5	1539.7	1556.5
65°	5101.8	2072.8	1204.2	1070.0	1070.0	1185.5	1304.8	1366.3	1392.4	1517.3	1536.0
67.5°	4593.0	1901.3	1111.0	982.3	978.6	1094.2	1211.6	1275.0	1316.0	1485.6	1496.8
70°	3811.9	1670.2	995.4	887.3	887.3	991.7	1097.9	1174.3	1234.0	1426.0	1426.0
72.5°	2611.5	1388.7	855.6	779.2	781.0	878.0	986.1	1071.8	1142.7	1306.7	1310.4
75°	1651.5	1084.9	702.7	663.6	671.1	762.4	874.2	963.7	1105.4	1291.8	1297.4
77.5°	878.0	762.4	559.2	549.9	559.2	643.1	768.0	891.0	1109.1	1120.3	1101.6
80°	568.5	540.6	441.8	423.1	426.9	518.2	684.1	846.3	891.0	902.2	861.2
82.5°	309.4	343.0	313.2	294.5	294.5	404.5	583.4	672.9	639.4	531.2	507.0
85°	132.3	160.3	162.2	141.7	136.1	249.8	391.4	367.2	341.1	326.2	322.5
87.5°	37.3	52.2	52.2	39.1	29.8	69.0	78.3	22.4	0.0	1.9	3.7
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)