

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: P321039

Luminaire Tested: **GAN-SA5B-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29301 lumens
Efficiency: N/A
Efficacy: 139.5 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): 210
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



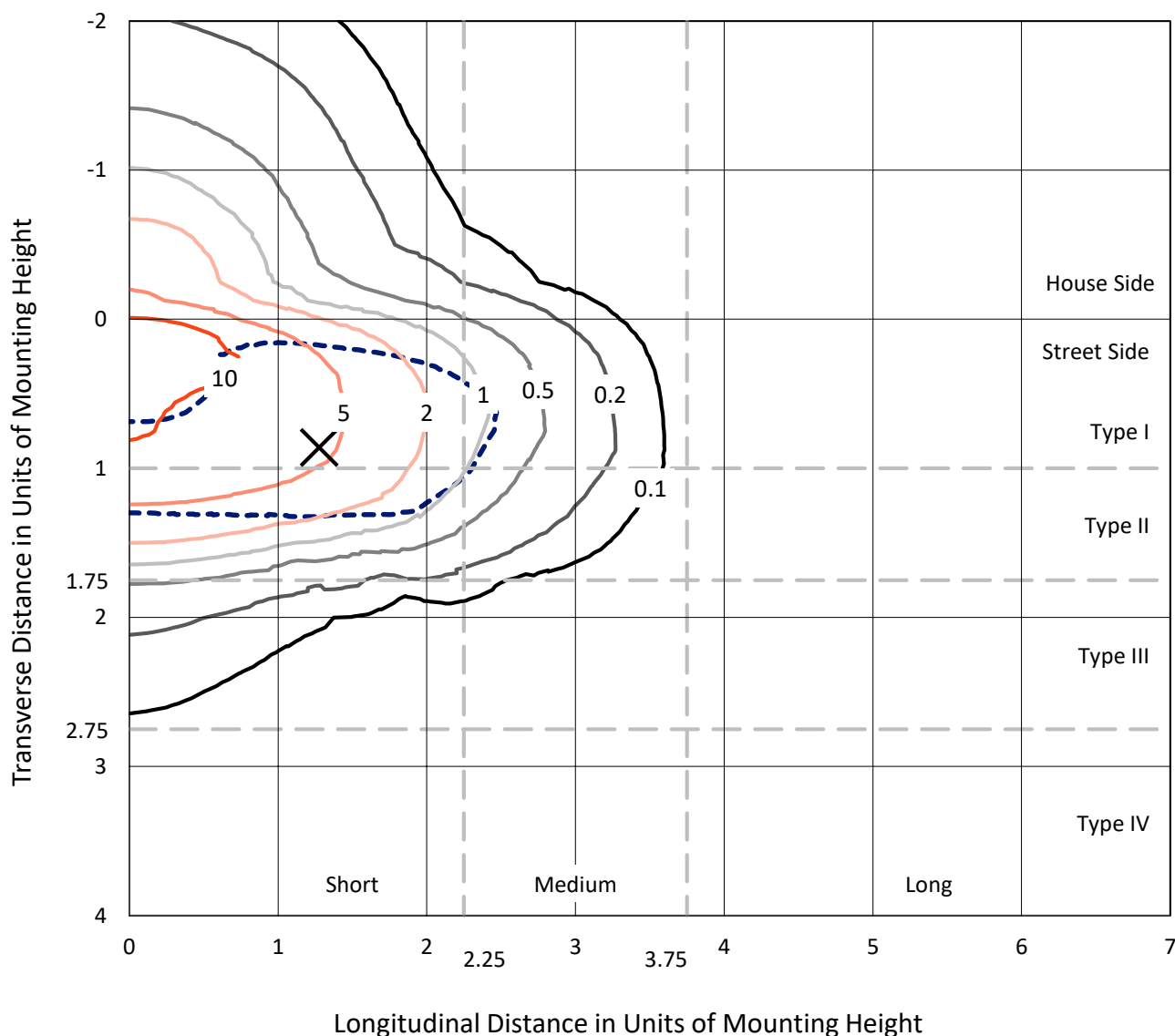
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

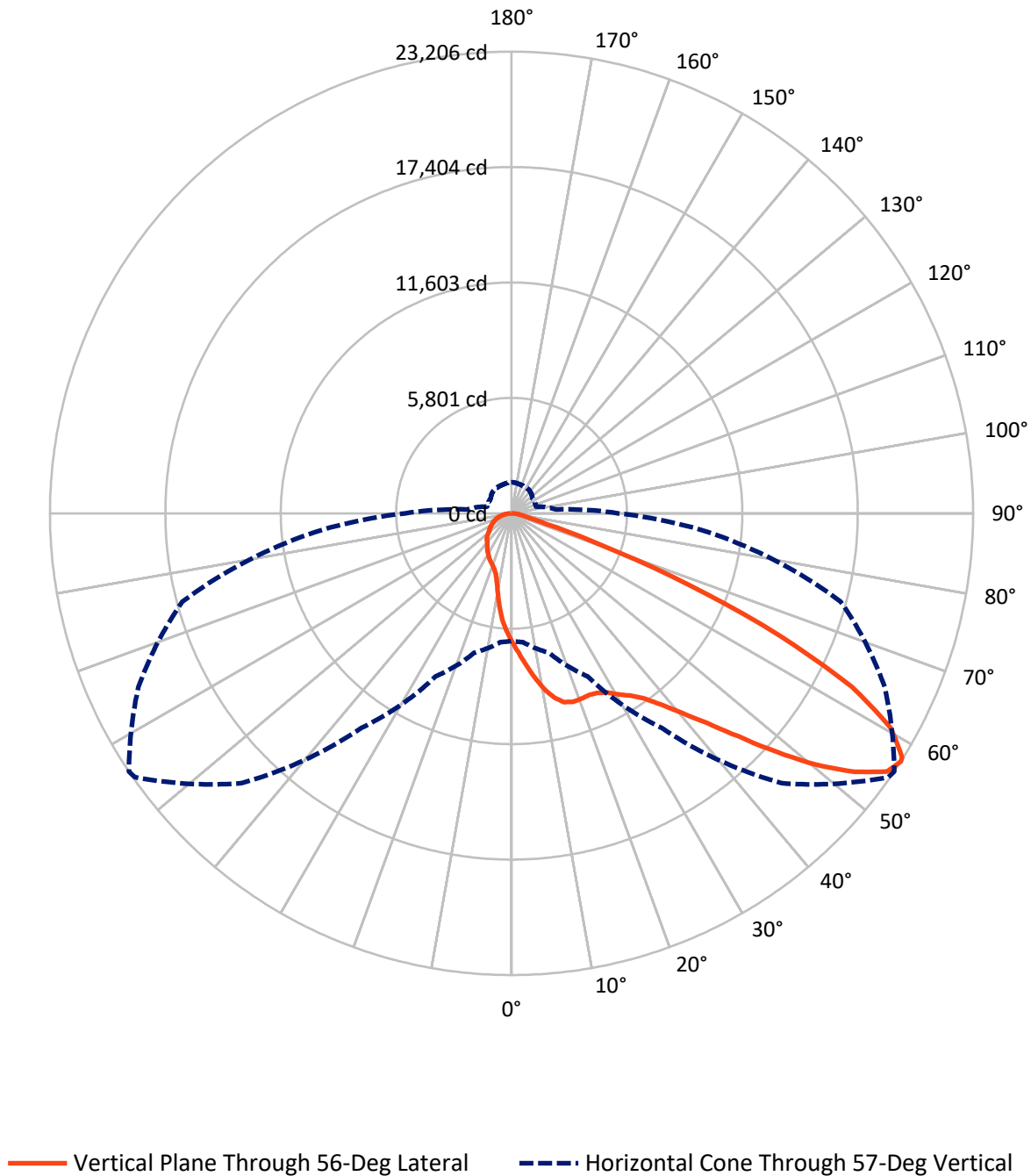


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc

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	5050.9	0.0	5050.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24250.1	0.0	24250.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	29301.0	0.0	29301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.8	2.1
10°-20°	1755.2	6.0
20°-30°	2858.9	9.8
30°-40°	4273.7	14.6
40°-50°	6482.3	22.1
50°-60°	7265.5	24.8
60°-70°	4291.3	14.6
70°-80°	1406.0	4.8
80°-90°	347.4	1.2
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°	29301.0	100.0
0°-180°	29301.0	100.0

Coefficient of Utilization



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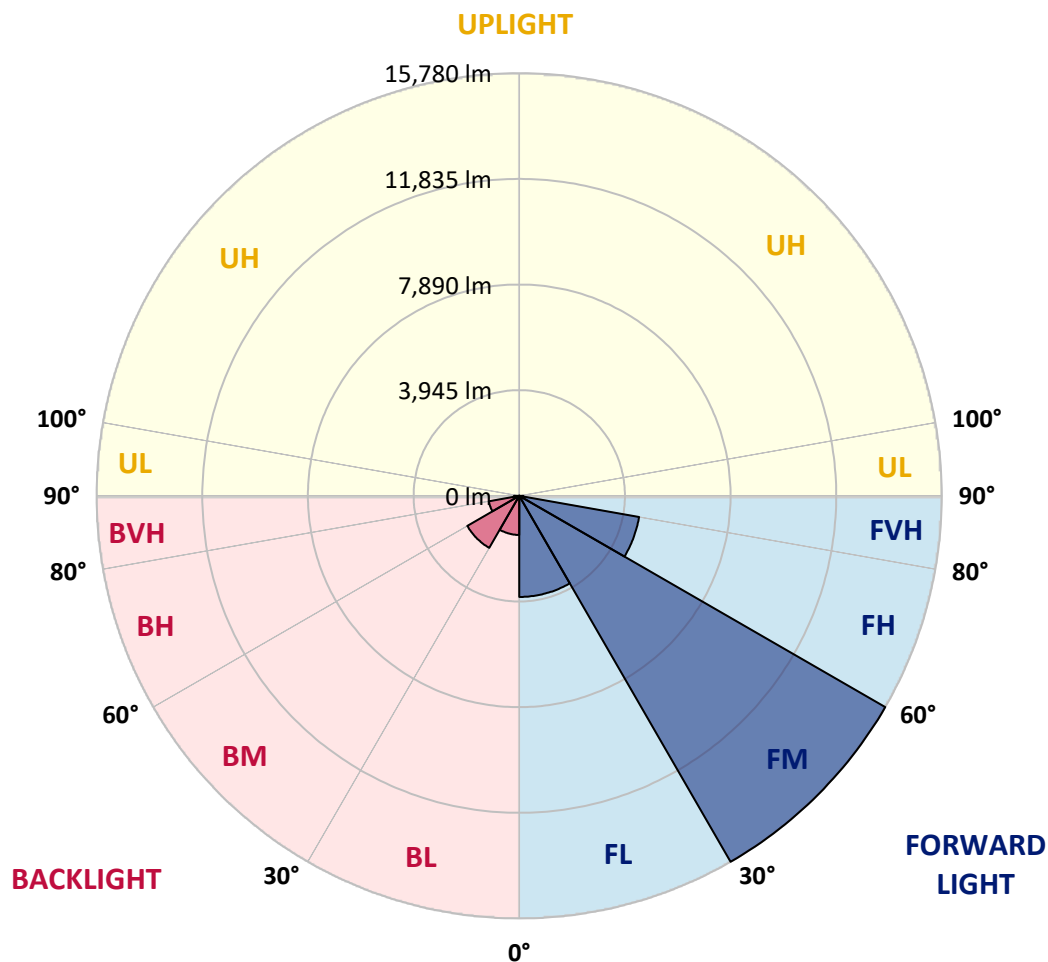
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3774.4	12.9			
FM	(30°-60°)	15779.6	53.9			
FH	(60°-80°)	4543.2	15.5			G2/5000
FVH	(80°-90°)	153.0	0.5			G2/225
BL	(0°-30°)	1460.5	5.0	B3/2500		
BM	(30°-60°)	2241.9	7.7	B2/2500		
BH	(60°-80°)	1154.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	194.4	0.7			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°	56°	65°	75°	85°
0°	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0
2.5°	7462.7	7531.1	7500.9	7396.2	7315.6	7201.9	7075.0	7036.7	6902.8	6752.7	6572.5
5°	8643.8	8609.6	8560.3	8397.1	8224.9	8024.5	7706.3	7656.0	7357.9	7018.6	6660.1
7.5°	9316.5	9313.5	9284.3	9188.6	9031.5	8769.7	8386.1	8326.6	7876.5	7330.7	6774.9
10°	9218.8	9211.8	9260.1	9359.8	9407.1	9352.7	9029.5	8970.1	8417.3	7676.1	6907.8
12.5°	8664.0	8668.0	8745.5	8955.0	9240.0	9582.3	9530.0	9500.8	8978.2	8066.8	7068.9
15°	8232.0	8241.0	8302.5	8484.7	8821.1	9442.4	9834.1	9844.1	9520.9	8497.8	7257.2
17.5°	8042.7	8061.8	8090.0	8217.9	8526.0	9163.4	9906.6	9961.0	9996.2	8944.9	7438.5
20°	8103.1	8121.2	8129.3	8210.8	8463.6	8994.3	9856.2	9953.9	10360.7	9365.8	7619.7
22.5°	8374.0	8385.0	8390.1	8411.2	8607.6	9042.6	9823.0	9925.7	10624.5	9743.4	7756.7
25°	8823.1	8815.0	8782.8	8755.6	8887.5	9233.9	9899.5	9997.2	10839.0	10085.8	7846.3
27.5°	9360.8	9350.7	9288.3	9213.8	9289.3	9532.0	10120.1	10197.6	11031.4	10406.0	7891.6
30°	10006.3	9980.1	9862.3	9773.7	9802.9	9979.1	10483.6	10554.1	11328.4	10769.6	7935.9
32.5°	10752.4	10724.2	10554.1	10407.0	10407.0	10554.1	10858.2	10916.6	11580.2	11180.4	8007.4
35°	11686.9	11651.7	11430.1	11183.4	11113.9	11188.5	11368.7	11410.0	12033.3	11698.0	8137.3
37.5°	12788.5	12741.2	12454.2	12123.9	11971.9	11967.8	12097.7	12182.3	12757.3	12377.7	8357.9
40°	13893.2	13859.9	13609.2	13349.4	13051.3	12955.7	13156.1	13182.3	13703.9	13221.5	8639.8
42.5°	14747.1	14741.0	14694.7	14729.0	14423.8	14230.5	14387.6	14408.7	14859.9	14134.8	8939.9
45°	15198.2	15208.3	15432.8	15930.3	16043.1	15902.1	15979.6	15985.7	16181.0	15056.2	9214.8
47.5°	14836.7	14889.1	15457.0	16569.7	17493.1	17961.3	17832.4	17907.0	17461.9	15847.7	9430.3
50°	13428.0	13492.4	14459.1	16284.7	18169.8	19954.1	19886.7	19869.5	18495.0	16427.7	9547.1
52.5°	11682.9	11733.2	12530.7	14803.5	17673.3	21055.8	21675.0	21586.4	19413.4	16861.7	9569.2
55°	9025.5	9104.0	9868.3	11847.0	15665.4	20634.8	22990.1	22910.6	20250.2	17089.3	9543.1
57°	6416.4	6499.0	7258.2	9041.6	13178.2	19177.8	23121.1	23205.6	20702.3	17127.6	9572.3
57.5°	5725.6	5810.2	6562.4	8294.4	12402.9	18651.1	23008.3	23149.2	20783.9	17121.5	9588.4
60°	2883.0	2915.2	3394.5	4630.1	7840.3	15078.4	21537.1	21900.6	20857.4	16825.5	9657.9
62.5°	1792.4	1769.2	1754.1	2132.8	3814.4	9999.2	18501.1	19200.9	19450.6	16108.5	9489.7
65°	1575.9	1532.6	1366.5	1336.3	1684.7	4856.6	13932.4	14803.5	16444.8	14978.7	9088.9
67.5°	1480.2	1438.0	1250.7	1137.9	1138.9	1925.3	8649.9	9630.7	12810.7	13068.5	8143.4
70°	1381.6	1343.3	1168.1	1035.2	969.7	1066.4	3979.5	4723.7	8350.8	10272.1	6806.1
72.5°	1254.7	1228.5	1062.4	925.4	855.9	798.5	1523.5	1799.5	4834.5	6898.8	4726.7
75°	1121.8	1097.6	955.6	824.7	740.1	628.3	857.9	924.4	2456.0	3529.4	2327.1
77.5°	975.8	961.7	849.9	729.0	661.6	520.6	607.2	639.4	1053.3	1513.5	1167.1
80°	776.4	803.6	743.1	649.5	587.1	416.9	430.0	451.1	613.2	739.1	662.6
82.5°	505.5	552.8	582.0	527.7	483.3	328.3	309.1	318.2	399.8	451.1	288.0
85°	210.5	236.6	382.6	345.4	321.2	239.7	207.4	211.5	247.7	256.8	117.8
87.5°	93.6	99.7	168.2	158.1	135.9	82.6	88.6	96.7	131.9	124.9	45.3
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°	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0	6499.0
2.5°	6505.0	6420.4	6275.4	6115.3	5984.4	5879.7	5774.0	5701.5	5616.9	5571.6	5548.4
5°	6510.1	6343.9	6038.8	5725.6	5445.7	5189.9	4946.2	4758.9	4583.7	4489.1	4462.9
7.5°	6531.2	6281.5	5788.1	5272.5	4775.1	4320.9	3970.5	3751.0	3592.9	3522.4	3502.2
10°	6548.3	6208.0	5477.9	4714.6	4038.0	3577.8	3305.9	3183.0	3128.7	3119.6	3110.5
12.5°	6588.6	6132.5	5151.7	4132.6	3465.0	3146.8	3052.1	3044.1	3059.2	3081.3	3081.3
15°	6652.0	6057.9	4779.1	3633.2	3100.5	2988.7	3007.8	3052.1	3093.4	3127.7	3132.7
17.5°	6698.4	5966.3	4378.3	3233.4	2906.1	2936.3	3004.8	3067.2	3109.5	3142.8	3145.8
20°	6731.6	5824.3	3950.3	2928.3	2794.3	2888.0	2973.6	3029.0	3058.2	3091.4	3096.4
22.5°	6714.5	5634.0	3570.7	2709.8	2703.7	2817.5	2899.1	2965.5	2943.4	2911.2	2932.3
25°	6631.9	5372.2	3180.0	2546.6	2608.1	2722.8	2823.5	2779.2	2704.7	2690.6	2698.7
27.5°	6484.9	5037.9	2818.5	2395.6	2497.3	2635.2	2629.2	2584.9	2558.7	2540.6	2551.7
30°	6326.8	4675.4	2502.3	2263.7	2374.4	2488.2	2465.1	2464.1	2437.9	2408.7	2422.8
32.5°	6170.7	4310.8	2251.6	2154.9	2281.8	2296.9	2347.2	2362.4	2311.0	2249.6	2245.5
35°	6034.8	3966.5	2061.3	2056.2	2170.0	2172.0	2245.5	2224.4	2096.5	2033.1	2033.1
37.5°	5933.1	3623.1	1916.3	1967.6	2023.0	2075.4	2112.6	2025.0	2003.9	1968.6	1967.6
40°	5888.8	3321.0	1825.6	1900.2	1919.3	1985.7	1890.1	1924.3	1934.4	1916.3	1916.3
42.5°	5842.4	3058.2	1747.1	1848.8	1845.8	1836.7	1788.4	1832.7	1873.0	1874.0	1871.0
45°	5796.1	2831.6	1677.6	1739.0	1781.3	1683.7	1692.7	1740.0	1796.4	1816.6	1816.6
47.5°	5744.8	2652.4	1614.2	1623.2	1688.7	1623.2	1616.2	1652.4	1718.9	1751.1	1758.2
50°	5632.0	2491.2	1541.7	1521.5	1539.7	1561.8	1567.9	1585.0	1658.5	1709.8	1721.9
52.5°	5475.9	2347.2	1449.0	1427.9	1427.9	1511.5	1539.7	1544.7	1607.1	1668.6	1680.6
55°	5346.0	2255.6	1353.4	1349.3	1345.3	1458.1	1506.4	1514.5	1557.8	1606.1	1612.2
57°	5355.1	2248.6	1279.9	1283.9	1282.9	1403.7	1475.2	1492.3	1514.5	1555.8	1562.8
57.5°	5360.1	2253.6	1263.7	1265.8	1264.8	1388.6	1466.1	1485.3	1502.4	1545.7	1552.7
60°	5435.6	2266.7	1198.3	1176.1	1181.2	1308.1	1414.8	1439.0	1450.0	1507.4	1516.5
62.5°	5323.9	2208.3	1145.9	1092.6	1092.6	1223.5	1343.3	1381.6	1398.7	1476.2	1491.3
65°	4999.6	2044.2	1084.5	997.9	1008.0	1138.9	1257.7	1320.1	1346.3	1443.0	1459.1
67.5°	4499.1	1853.8	1019.1	913.3	923.4	1050.3	1169.1	1236.6	1277.8	1406.7	1419.8
70°	3847.6	1621.2	930.4	823.7	835.8	953.6	1064.4	1140.9	1202.3	1372.5	1376.5
72.5°	2836.6	1329.2	806.6	725.0	738.1	840.8	958.6	1047.2	1129.8	1286.9	1284.9
75°	1686.7	1039.2	669.6	625.3	634.4	730.1	863.0	970.7	1094.6	1253.7	1272.8
77.5°	1023.1	782.4	545.8	523.6	534.7	632.4	794.5	909.3	1079.5	1182.2	1176.1
80°	618.3	558.9	436.0	421.9	433.0	540.7	735.1	863.0	943.5	1010.0	1010.0
82.5°	323.2	341.4	320.2	309.1	324.2	439.0	668.6	753.2	833.8	716.0	668.6
85°	131.9	178.2	194.3	193.3	202.4	304.1	577.0	644.5	537.7	510.5	522.6
87.5°	44.3	75.5	94.7	81.6	85.6	191.3	399.8	311.2	369.6	257.8	244.7
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)