

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: P193518

Luminaire Tested: **GAN-AF-10-LED-U-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-AFL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49322 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 558
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

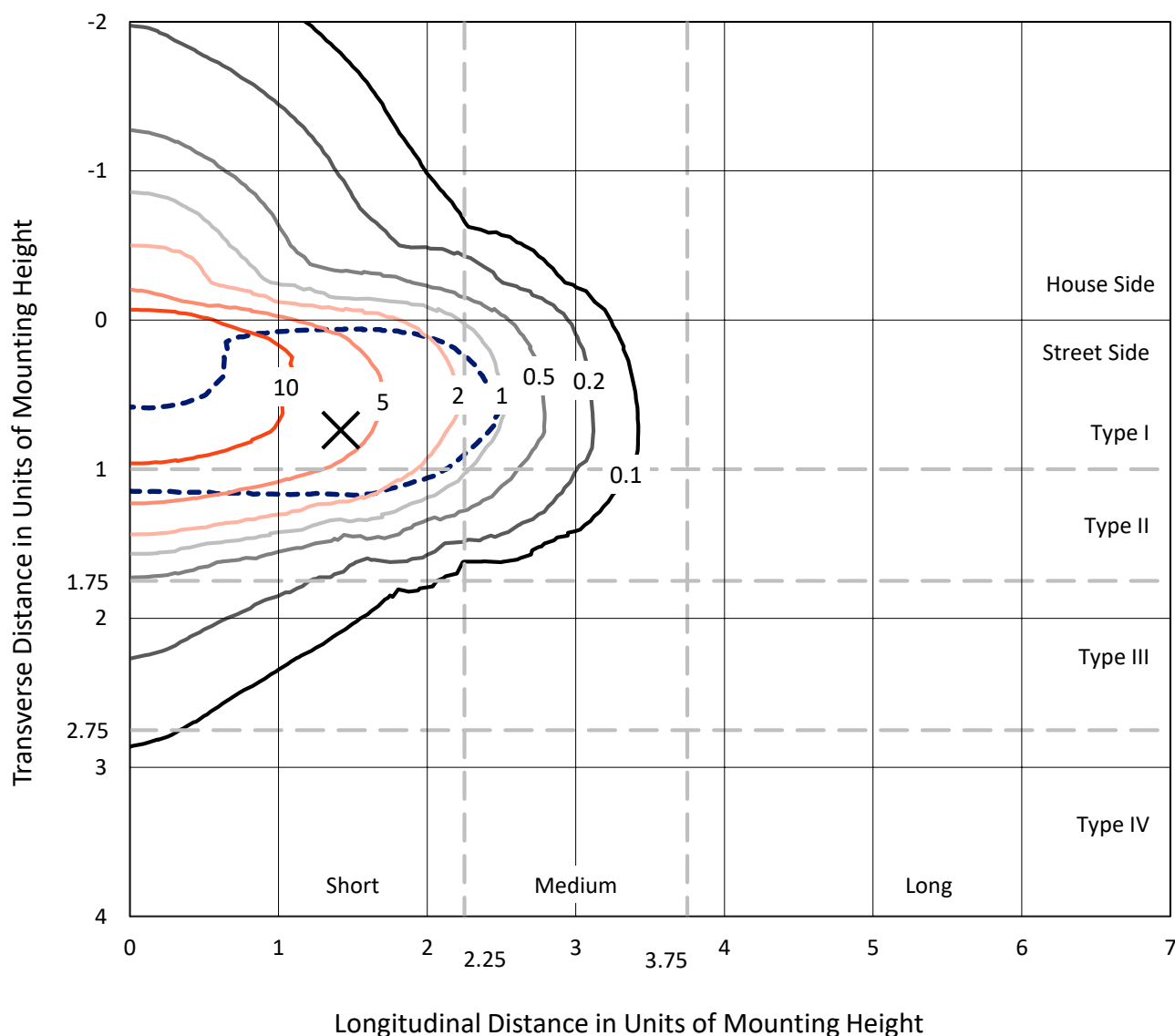


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

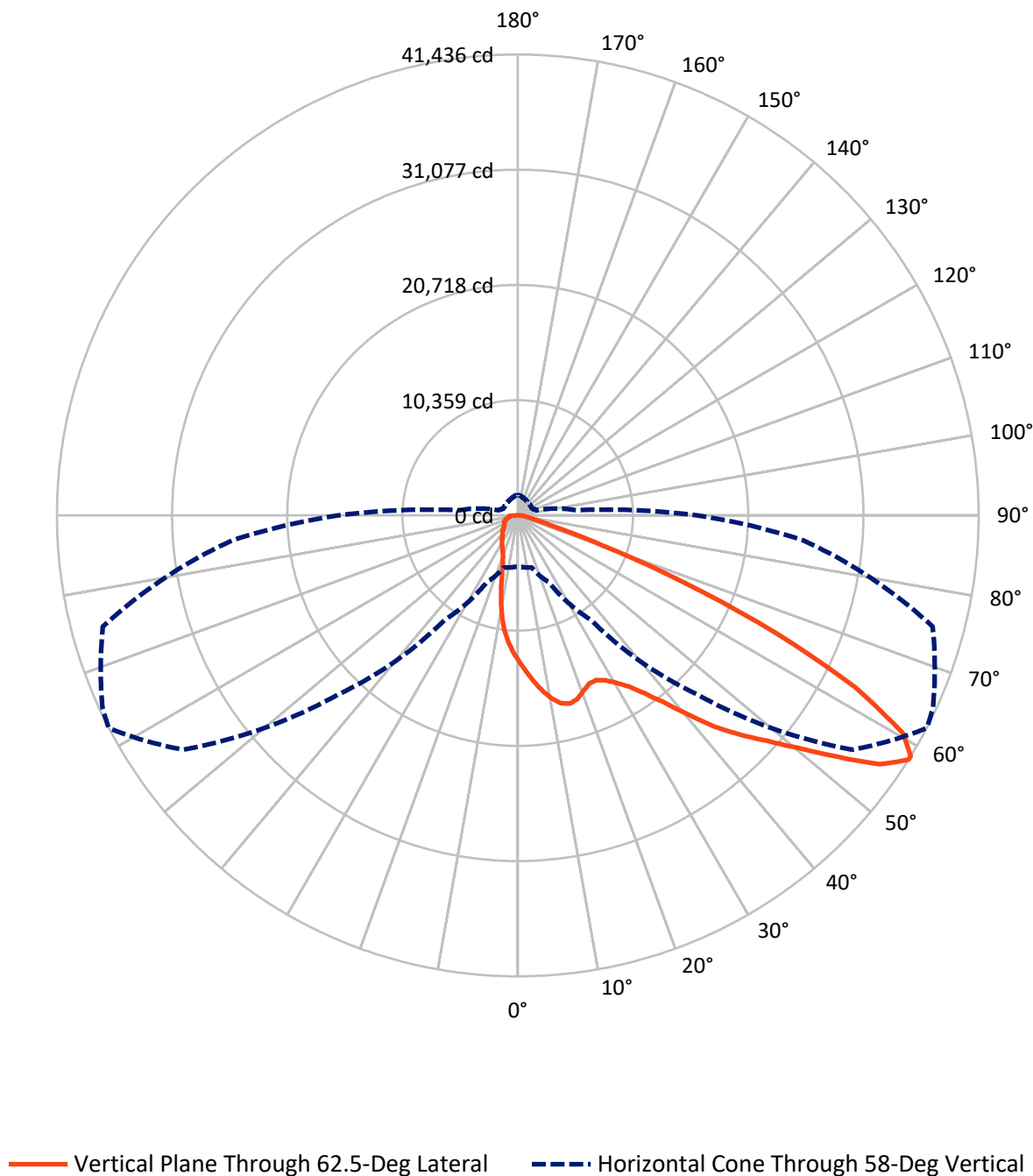


Based on 30 foot mounting height. Maximum calculated value = 17.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7521.8	0.0	7521.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	41800.2	0.0	41800.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	49322.0	0.0	49322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.7	2.4
10°-20°	2995.1	6.1
20°-30°	4841.7	9.8
30°-40°	7686.2	15.6
40°-50°	11246.5	22.8
50°-60°	11762.9	23.8
60°-70°	6949.5	14.1
70°-80°	1957.7	4.0
80°-90°	710.8	1.4
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°	49322.0	100.0
0°-180°	49322.0	100.0

Coefficient of Utilization



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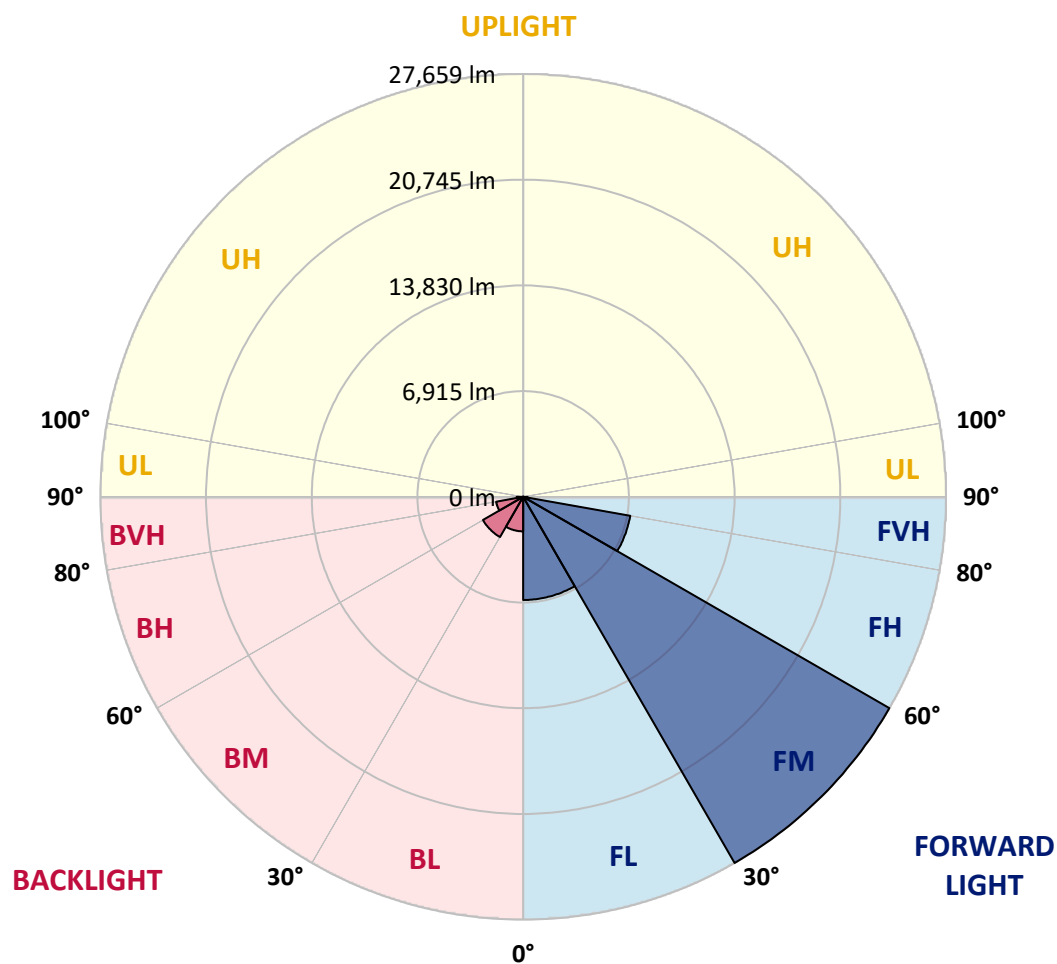
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6747.9	13.7			
FM	(30°-60°)	27659.5	56.1			
FH	(60°-80°)	7112.4	14.4			G3/7500
FVH	(80°-90°)	280.4	0.6			G3/500
BL	(0°-30°)	2260.7	4.6	B3/2500		
BM	(30°-60°)	3036.0	6.2	B3/5000		
BH	(60°-80°)	1794.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	430.4	0.9			G3/500
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°	62.5°	65°	75°	85°
0°	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4
2.5°	14971.0	14850.2	14773.6	14706.3	14618.0	14429.9	14176.7	14016.5	13935.2	13658.8	13331.3
5°	16438.9	16332.0	16253.1	16162.5	16004.5	15709.6	15300.8	14975.7	14815.4	14262.6	13607.7
7.5°	16095.1	16139.3	16276.3	16515.5	16719.9	16680.4	16315.8	15902.4	15691.0	14922.2	13928.2
10°	14023.4	14100.1	14337.0	14896.7	15802.5	16731.5	17014.8	16729.2	16515.5	15574.9	14258.0
12.5°	13607.7	13605.4	13624.0	13772.6	14311.4	15619.0	17038.1	17326.1	17198.3	16197.3	14594.8
15°	13777.2	13781.9	13768.0	13830.7	13997.9	14515.8	16327.4	17556.0	17646.6	16824.4	14943.2
17.5°	14223.2	14211.6	14158.1	14158.1	14218.5	14420.6	15491.3	17342.3	17760.4	17379.5	15249.7
20°	14971.0	14917.6	14775.9	14645.9	14580.8	14690.0	15147.5	16849.9	17563.0	17864.9	15502.9
22.5°	15876.8	15835.0	15605.1	15326.4	15101.1	15098.8	15324.0	16420.3	17221.6	18322.4	15716.6
25°	17047.4	16980.0	16638.6	16192.7	15797.8	15646.9	15709.6	16399.4	17035.7	18819.5	15907.0
27.5°	18422.3	18299.2	17895.1	17251.7	16671.1	16366.9	16276.3	16777.9	17205.3	19434.9	16171.8
30°	20089.9	19948.2	19430.3	18591.8	17772.0	17272.6	17079.9	17449.2	17767.3	20185.1	16596.8
32.5°	21987.4	21783.0	21183.8	20259.4	19181.8	18420.0	18106.4	18336.4	18589.5	21088.6	17128.6
35°	24609.5	24365.6	23499.3	22224.3	21007.3	19959.8	19458.1	19625.4	19871.6	22435.6	17897.4
37.5°	26397.9	26288.7	25712.7	24514.3	23190.4	21985.1	21209.3	21306.9	21446.2	24119.5	18882.2
40°	26381.6	26425.7	26437.3	26449.0	25547.8	24393.5	23559.7	23457.5	23429.7	25968.2	20001.6
42.5°	25060.1	25241.2	25826.5	27013.3	27561.4	27031.9	26267.8	25972.8	25826.5	28146.7	21188.4
45°	23037.2	23134.7	24230.9	26548.8	28592.7	29644.8	29066.4	28137.4	27872.7	30148.7	22173.2
47.5°	21994.3	22101.2	22791.0	25317.9	28581.0	31755.9	32090.4	30320.6	29846.8	31890.6	23023.2
50°	19511.6	19734.5	20603.2	23176.5	27538.2	32726.8	35251.3	32921.8	31941.7	33586.1	23875.6
52.5°	14952.4	15296.2	16269.3	19655.6	24892.9	32246.0	37780.6	36075.8	34691.6	35341.9	24607.2
55°	9431.8	9687.3	10504.8	13881.8	19913.4	29744.6	38739.8	39487.6	38256.7	37004.9	25241.2
57.5°	5128.1	5241.9	5548.5	7664.3	12952.7	24214.7	37341.6	41429.3	40918.3	38416.9	25719.7
58°	4589.3	4666.0	4856.4	6642.4	11487.2	22702.7	36721.5	41436.2	41180.8	38623.7	25756.8
60°	3404.8	3365.3	3195.8	3790.4	6393.9	15684.0	32972.9	39778.0	40528.1	38876.8	25575.7
62.5°	2991.4	2896.2	2550.1	2510.7	3109.9	7225.4	25229.6	34073.8	35845.9	37432.2	24474.8
65°	2810.3	2708.1	2262.1	2118.1	2243.6	3056.4	14861.9	25554.8	27777.4	33051.9	21659.9
67.5°	2675.6	2543.2	2078.7	1881.2	1890.5	2020.6	5957.3	16095.1	18596.5	25094.9	16847.6
70°	2545.5	2401.5	1923.1	1695.4	1642.0	1597.9	2369.0	8056.9	10326.0	15851.3	10741.7
72.5°	2406.1	2264.5	1786.0	1549.1	1444.6	1298.3	1546.8	3295.7	4603.3	7499.4	4872.7
75°	2204.1	2076.3	1649.0	1419.1	1270.4	1075.3	1168.2	1721.0	2064.7	2986.8	2348.1
77.5°	1955.6	1851.1	1495.7	1312.2	1126.4	873.3	898.8	1193.8	1323.8	1709.4	1395.8
80°	1405.1	1442.3	1330.8	1179.8	1003.3	708.4	689.8	870.9	940.6	1098.6	908.1
82.5°	987.1	1008.0	1100.9	963.8	829.1	557.4	508.6	613.1	655.0	722.3	490.1
85°	680.5	657.3	754.8	671.2	599.2	371.6	348.4	415.7	441.3	448.2	253.2
87.5°	408.8	408.8	436.6	360.0	322.8	192.8	188.1	236.9	253.2	241.5	139.4
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°	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4	13101.4
2.5°	13136.2	12971.3	12620.6	12339.6	11984.2	11615.0	11408.3	11187.6	11036.7	10927.5	11101.7
5°	13236.1	12899.3	12174.7	11487.2	10727.8	9938.1	9338.9	8781.5	8393.6	8152.1	8379.7
7.5°	13394.0	12876.1	11721.8	10546.6	9183.3	7868.7	6693.5	5957.3	5527.6	5316.3	5448.7
10°	13575.2	12838.9	11189.9	9271.5	7320.6	5664.6	4786.7	4489.4	4391.9	4352.4	4371.0
12.5°	13726.1	12760.0	10537.3	7729.4	5497.4	4473.2	4220.0	4213.1	4234.0	4238.6	4245.6
15°	13833.0	12643.8	9568.8	6122.2	4396.5	4076.0	4062.1	4103.9	4143.4	4159.6	4168.9
17.5°	13905.0	12404.6	8474.9	4840.1	3939.0	3883.3	3915.8	3969.2	4011.0	4022.6	4031.9
20°	13898.0	12053.9	7172.0	4036.6	3690.5	3690.5	3746.2	3788.0	3790.4	3776.4	3783.4
22.5°	13826.0	11573.2	5908.5	3609.2	3469.9	3509.3	3565.1	3525.6	3363.0	3256.2	3263.2
25°	13705.2	10999.5	4826.2	3337.5	3265.5	3335.2	3318.9	3021.6	2789.4	2684.8	2684.8
27.5°	13598.4	10321.3	3994.7	3100.6	3061.1	3147.0	2859.0	2589.6	2492.1	2443.3	2427.0
30°	13521.8	9589.7	3439.7	2873.0	2868.3	2805.6	2480.5	2406.1	2389.9	2350.4	2336.5
32.5°	13540.3	8848.8	3084.3	2673.2	2689.5	2401.5	2299.3	2315.6	2301.6	2259.8	2241.2
35°	13693.6	8145.1	2852.1	2492.1	2443.3	2169.2	2192.5	2222.7	2218.0	2160.0	2141.4
37.5°	13967.7	7478.5	2698.8	2341.1	2132.1	2053.1	2090.3	2136.7	2125.1	2085.6	2071.7
40°	14255.7	6851.5	2573.4	2222.7	1948.6	1974.1	2006.7	2032.2	2043.8	2055.4	2046.1
42.5°	14536.7	6196.5	2420.1	2101.9	1872.0	1899.8	1913.8	1939.3	2002.0	2046.1	2043.8
45°	14703.9	5581.0	2262.1	1930.0	1811.6	1827.8	1818.5	1869.6	1946.3	2018.3	2020.6
47.5°	14889.7	5102.6	2136.7	1772.1	1753.5	1765.1	1737.3	1788.3	1858.0	1946.3	1955.6
50°	15115.0	4816.9	2036.9	1646.7	1674.5	1674.5	1667.6	1714.0	1811.6	1913.8	1932.3
52.5°	15370.5	4761.2	1953.2	1556.1	1595.6	1593.3	1600.2	1669.9	1776.7	1876.6	1892.9
55°	15681.7	4912.1	1862.7	1488.7	1518.9	1528.2	1551.4	1630.4	1721.0	1834.8	1841.8
57.5°	16044.0	5218.7	1790.7	1435.3	1449.3	1479.5	1516.6	1588.6	1686.2	1811.6	1818.5
58°	16104.4	5283.8	1779.1	1430.7	1435.3	1470.2	1512.0	1581.6	1679.2	1816.2	1823.2
60°	16106.7	5499.7	1753.5	1409.8	1381.9	1440.0	1486.4	1556.1	1667.6	1832.5	1848.7
62.5°	15535.4	5497.4	1734.9	1379.6	1326.2	1398.2	1451.6	1532.9	1656.0	1872.0	1904.5
65°	13679.7	4995.8	1646.7	1333.1	1282.0	1361.0	1421.4	1516.6	1688.5	2043.8	2064.7
67.5°	10699.9	4094.6	1481.8	1268.1	1224.0	1323.8	1402.8	1514.3	1723.3	2083.3	2097.2
70°	7074.4	3063.4	1300.6	1193.8	1163.6	1279.7	1412.1	1593.3	1683.8	1999.7	1962.5
72.5°	3671.9	2150.7	1154.3	1100.9	1093.9	1240.2	1546.8	1584.0	1644.4	1881.2	1834.8
75°	1927.7	1493.4	1026.6	998.7	1010.3	1230.9	1825.5	1542.2	1593.3	1800.0	1888.2
77.5°	1179.8	1205.4	917.4	905.8	929.0	1203.1	1823.2	1488.7	1518.9	1656.0	1753.5
80°	789.7	977.8	833.8	836.1	852.4	1100.9	1637.4	1405.1	1428.4	1565.4	1665.3
82.5°	499.3	578.3	757.1	796.6	775.7	908.1	1391.2	1279.7	1312.2	1790.7	1892.9
85°	253.2	362.3	657.3	766.4	699.1	636.4	1128.7	1121.8	1138.0	1291.3	1349.4
87.5°	116.1	199.7	513.3	668.9	527.2	397.2	819.9	831.5	896.5	917.4	917.4
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)