

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: P318232

Luminaire Tested: **GAN-SA8A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318232
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-SA8A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29124 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

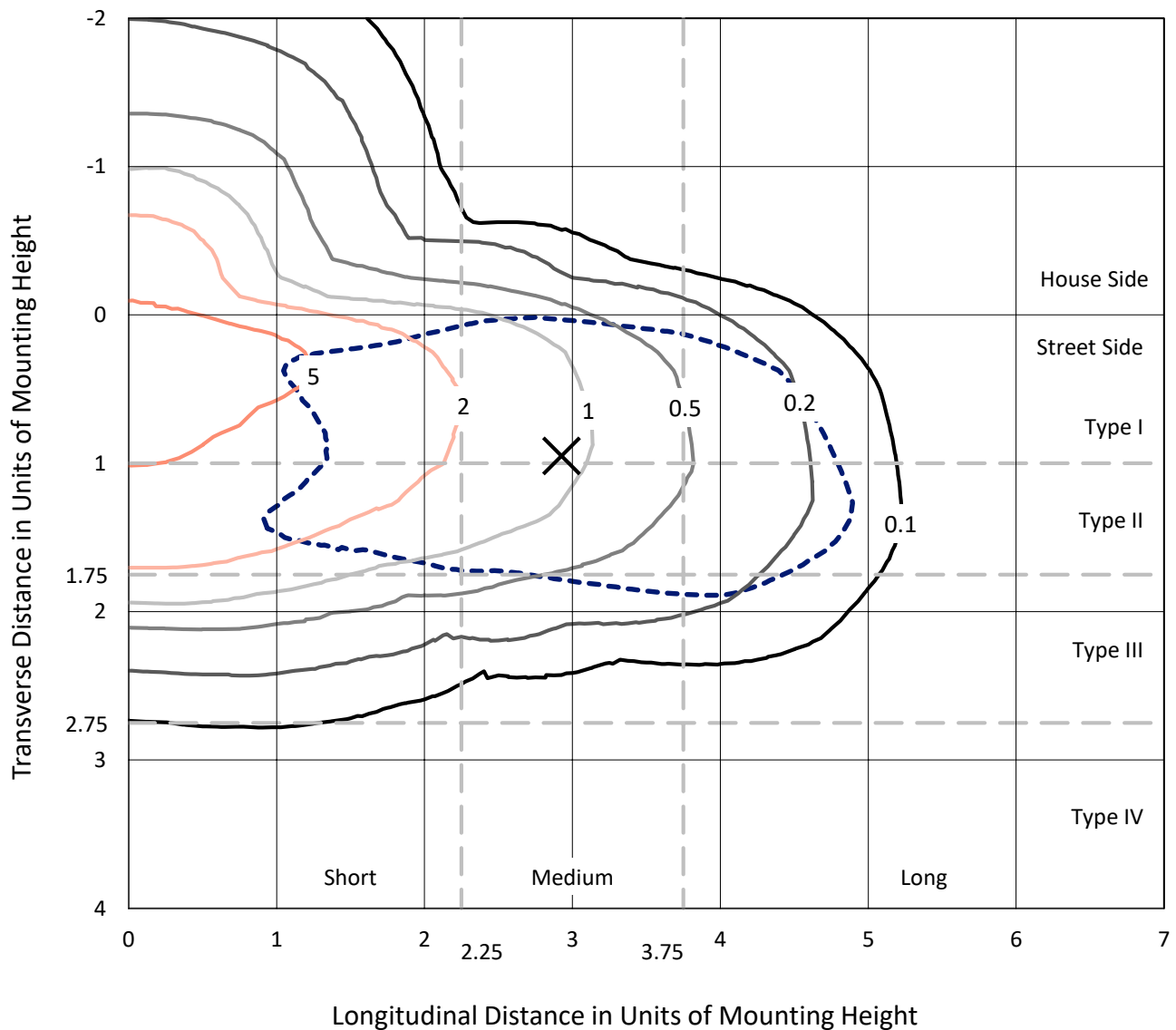
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

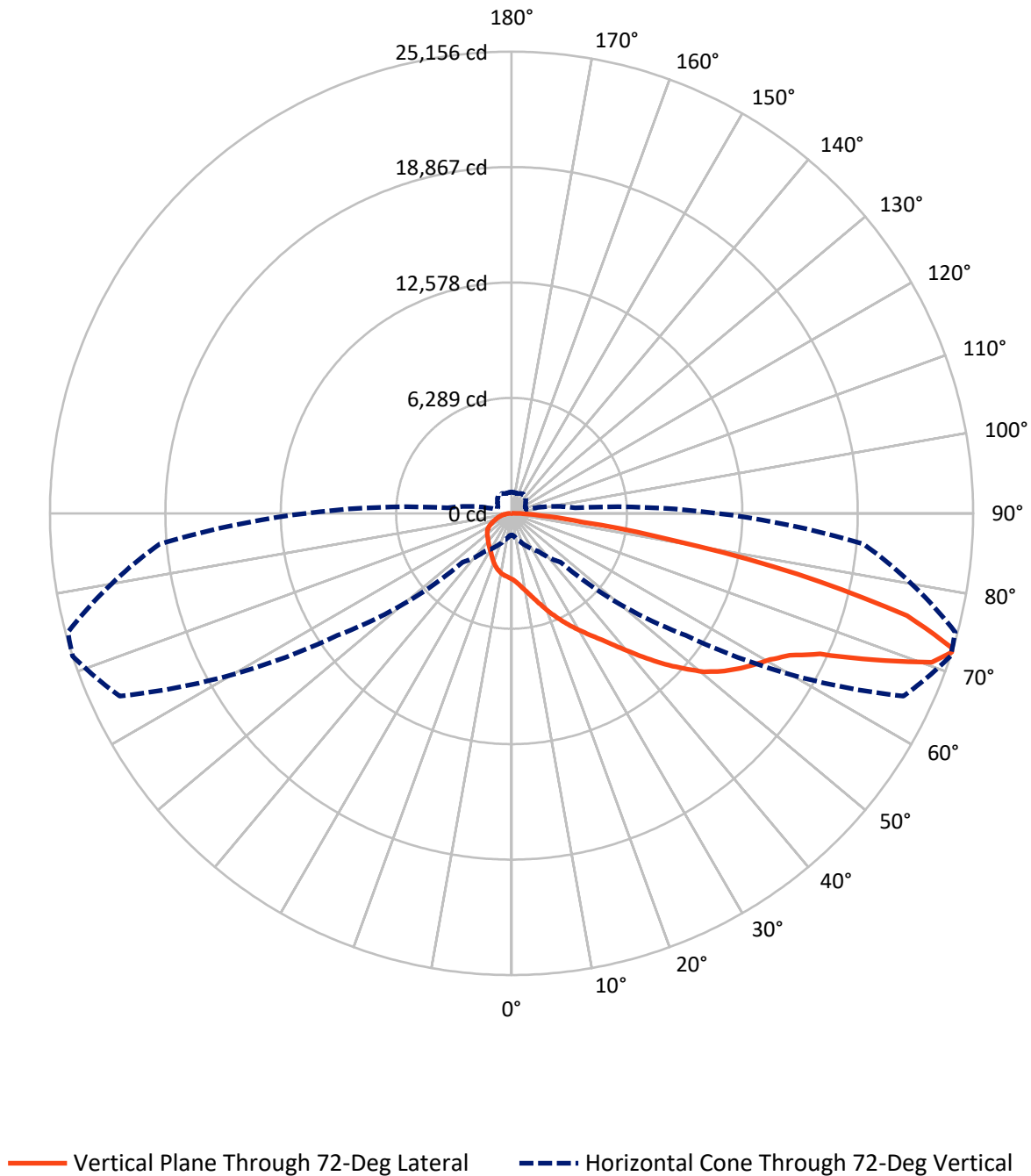
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5402.7	0.0	5402.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23721.3	0.0	23721.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	29124.0	0.0	29124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.2
10°-20°	1160.2	4.0
20°-30°	2033.0	7.0
30°-40°	3014.4	10.4
40°-50°	4408.8	15.1
50°-60°	6066.4	20.8
60°-70°	6753.7	23.2
70°-80°	4576.3	15.7
80°-90°	752.2	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°	29124.0	100.0
0°-180°	29124.0	100.0

Coefficient of Utilization



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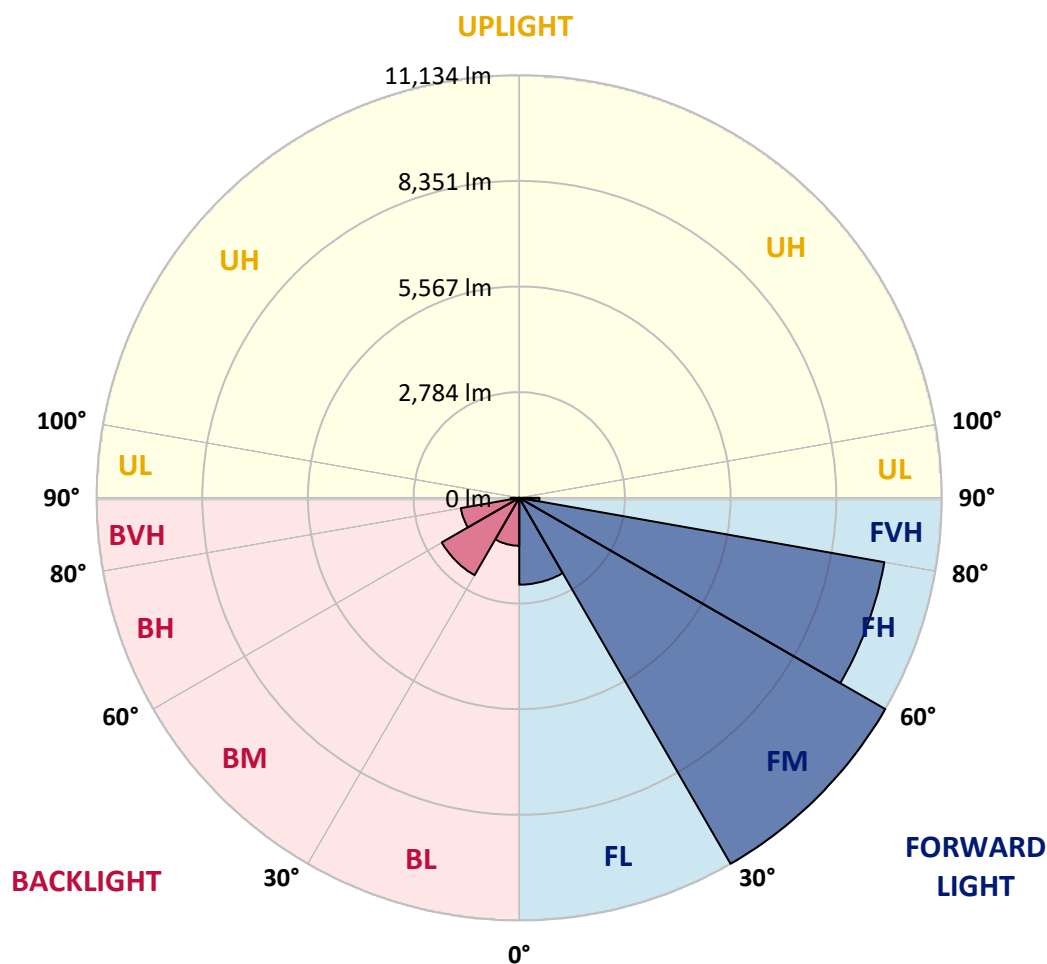
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.3	7.9			
FM	(30°-60°)	11134.5	38.2			
FH	(60°-80°)	9767.0	33.5			G4/12000
FVH	(80°-90°)	530.6	1.8			G4/750
BL	(0°-30°)	1263.0	4.3	B3/2500		
BM	(30°-60°)	2355.1	8.1	B2/2500		
BH	(60°-80°)	1563.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	221.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0
2.5°	3958.1	3952.0	3931.0	3931.0	3890.9	3856.8	3792.6	3749.5	3698.3	3680.3	3620.1
5°	4341.1	4343.1	4317.1	4299.0	4239.8	4167.6	4058.3	3959.1	3859.8	3819.7	3696.3
7.5°	4663.0	4659.0	4652.0	4637.0	4581.8	4507.6	4360.2	4212.8	4066.4	4006.2	3793.6
10°	4869.6	4878.6	4884.6	4891.7	4868.6	4815.5	4676.1	4496.6	4305.0	4222.8	3909.9
12.5°	4973.9	4989.9	5018.0	5066.2	5104.3	5098.2	4997.0	4806.4	4578.8	4475.5	4055.3
15°	5035.1	5056.1	5100.3	5186.5	5293.8	5355.0	5327.9	5155.4	4901.7	4774.3	4232.8
17.5°	5073.2	5090.2	5158.4	5273.7	5433.2	5595.6	5666.8	5522.4	5266.7	5121.3	4436.4
20°	5099.2	5112.3	5197.5	5332.9	5539.5	5798.2	5996.8	5960.7	5668.8	5480.3	4649.0
22.5°	5157.4	5168.4	5249.7	5386.0	5614.7	5948.6	6314.6	6368.8	6093.0	5879.4	4876.6
25°	5319.9	5319.9	5388.1	5483.3	5697.9	6079.0	6583.4	6823.1	6526.2	6277.5	5087.2
27.5°	5629.7	5626.7	5651.8	5684.9	5847.3	6211.4	6823.1	7224.2	6975.5	6703.7	5291.8
30°	5996.8	6016.8	6019.8	6003.8	6080.0	6376.8	7044.7	7647.4	7427.8	7134.9	5501.4
32.5°	6469.1	6482.1	6467.1	6413.9	6402.9	6611.5	7262.3	8090.6	7917.1	7585.2	5692.9
35°	7068.8	7043.7	6996.6	6888.2	6785.0	6925.4	7511.0	8533.8	8466.7	8129.7	5956.6
37.5°	7711.5	7712.6	7654.4	7408.7	7266.3	7326.5	7853.9	9036.2	9131.5	8777.5	6294.6
40°	8227.0	8254.1	8290.2	7967.3	7782.7	7866.0	8290.2	9618.9	9917.7	9545.7	6734.8
42.5°	8587.0	8618.1	8720.4	8517.8	8326.3	8480.7	8803.6	10240.6	10800.2	10432.1	7250.3
45°	8968.1	8985.1	9057.3	8970.1	8847.7	9195.7	9382.2	10884.4	11733.8	11376.8	7826.9
47.5°	9369.2	9387.2	9461.4	9403.3	9339.1	9863.6	9985.9	11491.1	12628.3	12414.7	8442.6
50°	9864.6	9876.6	9946.8	9841.5	9861.6	10367.0	10525.4	12047.7	13565.9	13347.3	9060.3
52.5°	10540.5	10543.5	10640.7	10545.5	10451.2	10736.0	10989.7	12572.1	14301.0	14197.7	9678.0
55°	11069.9	11102.0	11420.9	11400.9	11346.7	11070.9	11377.8	13071.5	14956.8	15005.9	10333.9
57.5°	10732.0	10857.3	11503.1	11958.4	12401.7	11904.3	11902.3	13634.1	15566.5	15799.1	11054.9
60°	9399.3	9569.7	10521.4	11531.2	12918.1	13354.3	12991.3	14321.0	16182.2	16585.3	11958.4
62.5°	6712.8	6993.5	8283.1	9895.7	12210.1	14315.0	15207.5	15411.1	17019.6	17495.9	13132.7
65°	3393.5	3606.1	4687.1	6629.5	9755.3	13687.2	17616.2	17797.7	18474.6	18897.8	14940.7
67.5°	2061.8	2142.0	2669.5	3687.3	5980.7	10661.8	18402.4	21775.8	21290.5	21515.1	17519.0
70°	1519.2	1578.4	1907.3	2448.8	3439.6	6256.5	15989.7	24614.8	24295.9	24270.8	19424.3
72°	1183.3	1226.4	1517.2	1978.5	2515.0	3753.5	11589.4	23566.9	25156.3	25029.9	19249.8
72.5°	1122.1	1160.2	1425.0	1862.2	2376.6	3402.5	10420.1	22859.9	25094.1	25037.0	19024.2
75°	883.5	910.5	1054.9	1440.0	1860.2	1930.4	5710.0	17715.5	22261.2	23186.8	17110.8
77.5°	731.0	735.1	811.3	1047.9	1450.1	1364.8	2804.8	12291.3	15940.5	16958.4	12120.9
80°	595.7	600.7	636.8	735.1	1097.1	1009.8	1331.7	7067.7	8924.9	8936.0	5764.1
82.5°	474.3	475.3	515.4	537.5	788.2	722.0	763.1	3318.3	3899.9	3751.5	2071.8
85°	333.9	326.9	503.4	441.2	515.4	463.3	421.2	1313.7	1612.5	1542.3	648.8
87.5°	111.3	115.3	223.6	285.8	300.8	262.7	187.5	503.4	608.7	603.7	205.6
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°	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0	3583.0
2.5°	3601.1	3569.0	3521.8	3469.7	3428.6	3386.5	3355.4	3339.3	3321.3	3306.2	3324.3
5°	3639.2	3579.0	3478.7	3380.4	3308.2	3244.1	3197.9	3173.9	3151.8	3136.8	3138.8
7.5°	3701.3	3604.1	3435.6	3292.2	3191.9	3122.7	3075.6	3059.5	3045.5	3041.5	3046.5
10°	3767.5	3624.1	3378.4	3187.9	3073.6	3016.4	2995.4	3006.4	3016.4	3025.5	3035.5
12.5°	3842.7	3642.2	3295.2	3065.6	2968.3	2946.2	2967.3	3015.4	3050.5	3071.6	3084.6
15°	3941.0	3658.2	3198.9	2943.2	2878.0	2903.1	2974.3	3057.5	3118.7	3157.8	3163.8
17.5°	4031.3	3657.2	3075.6	2819.9	2804.8	2878.0	2985.3	3102.7	3184.9	3240.1	3251.1
20°	4124.5	3630.1	2932.2	2699.5	2730.6	2851.0	2990.4	3131.8	3231.0	3295.2	3310.2
22.5°	4211.8	3583.0	2774.8	2590.2	2668.5	2814.9	2971.3	3114.7	3214.0	3266.1	3282.2
25°	4270.9	3500.8	2615.3	2498.0	2613.3	2770.7	2909.1	3024.5	3098.7	3124.7	3128.7
27.5°	4301.0	3393.5	2464.9	2417.8	2556.1	2698.5	2793.8	2851.0	2872.0	2870.0	2866.0
30°	4305.0	3252.1	2335.5	2352.6	2490.0	2592.2	2637.4	2626.3	2599.3	2553.1	2557.1
32.5°	4292.0	3092.6	2227.2	2290.4	2405.7	2462.9	2464.9	2411.7	2339.5	2266.3	2246.3
35°	4296.0	2936.2	2132.0	2220.2	2303.4	2328.5	2305.4	2227.2	2128.9	2034.7	2014.6
37.5°	4340.1	2799.8	2049.7	2139.0	2190.1	2196.1	2163.0	2080.8	2008.6	1916.4	1908.3
40°	4445.4	2702.6	1971.5	2047.7	2076.8	2079.8	2032.7	1974.5	1980.5	1931.4	1930.4
42.5°	4635.0	2660.4	1902.3	1952.5	1970.5	1976.5	1940.4	1903.3	1955.5	1923.4	1912.3
45°	4879.6	2670.5	1844.2	1859.2	1892.3	1920.4	1898.3	1853.2	1873.2	1733.8	1687.7
47.5°	5162.4	2734.6	1798.0	1779.0	1836.1	1889.3	1855.2	1787.0	1715.8	1577.4	1551.3
50°	5493.3	2833.9	1755.9	1699.7	1775.0	1847.2	1813.1	1715.8	1608.5	1541.3	1532.3
52.5°	5838.3	2955.3	1713.8	1612.5	1697.7	1815.1	1798.0	1699.7	1567.4	1501.2	1489.2
55°	6229.4	3077.6	1660.6	1511.2	1614.5	1800.0	1791.0	1641.6	1536.3	1499.2	1490.2
57.5°	6715.8	3217.0	1590.4	1405.9	1536.3	1745.9	1717.8	1606.5	1504.2	1476.1	1473.1
60°	7349.5	3422.6	1489.2	1293.6	1441.0	1662.6	1656.6	1555.3	1453.1	1433.0	1429.0
62.5°	8300.2	3762.5	1349.8	1181.3	1334.7	1521.3	1576.4	1486.2	1398.9	1397.9	1399.9
65°	9774.3	4273.9	1198.3	1083.0	1227.4	1401.9	1483.1	1415.0	1343.8	1363.8	1366.8
67.5°	11483.1	4698.1	1049.9	986.8	1118.1	1288.6	1398.9	1343.8	1270.6	1322.7	1323.7
70°	12051.7	4319.1	919.6	891.5	1004.8	1179.3	1307.7	1265.5	1191.3	1243.5	1238.5
72°	11215.3	3486.7	835.3	819.3	919.6	1089.0	1226.4	1192.3	1119.1	1154.2	1141.2
72.5°	10951.6	3324.3	814.3	801.2	896.5	1066.0	1205.4	1174.3	1101.1	1131.2	1119.1
75°	9769.3	2887.1	700.0	703.0	782.2	953.7	1087.0	1077.0	1001.8	1004.8	1000.8
77.5°	7085.8	2116.9	589.6	609.7	665.9	838.3	967.7	961.7	879.5	864.4	861.4
80°	3288.2	1080.0	480.3	489.4	547.5	701.0	825.3	817.3	751.1	732.0	721.0
82.5°	1126.1	513.4	361.0	367.0	424.2	564.6	716.0	711.0	655.8	618.7	595.7
85°	402.1	255.7	252.7	246.7	302.8	444.2	623.7	596.7	515.4	439.2	437.2
87.5°	130.4	109.3	130.4	129.4	176.5	300.8	453.3	386.1	374.0	310.9	304.9
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)