

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: P318250

Luminaire Tested: **GAN-SA6C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318250
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-SA6C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32990 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

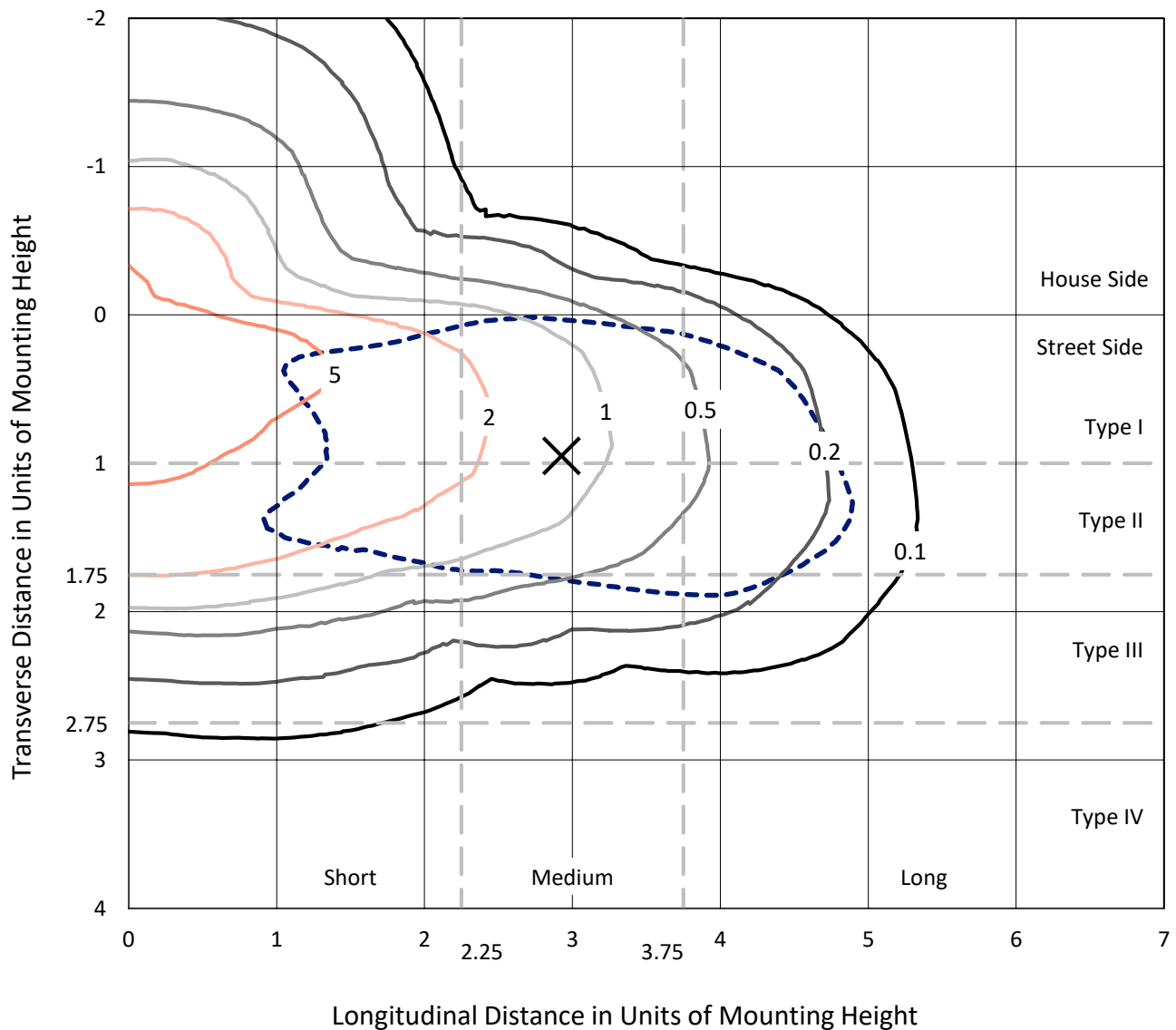
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

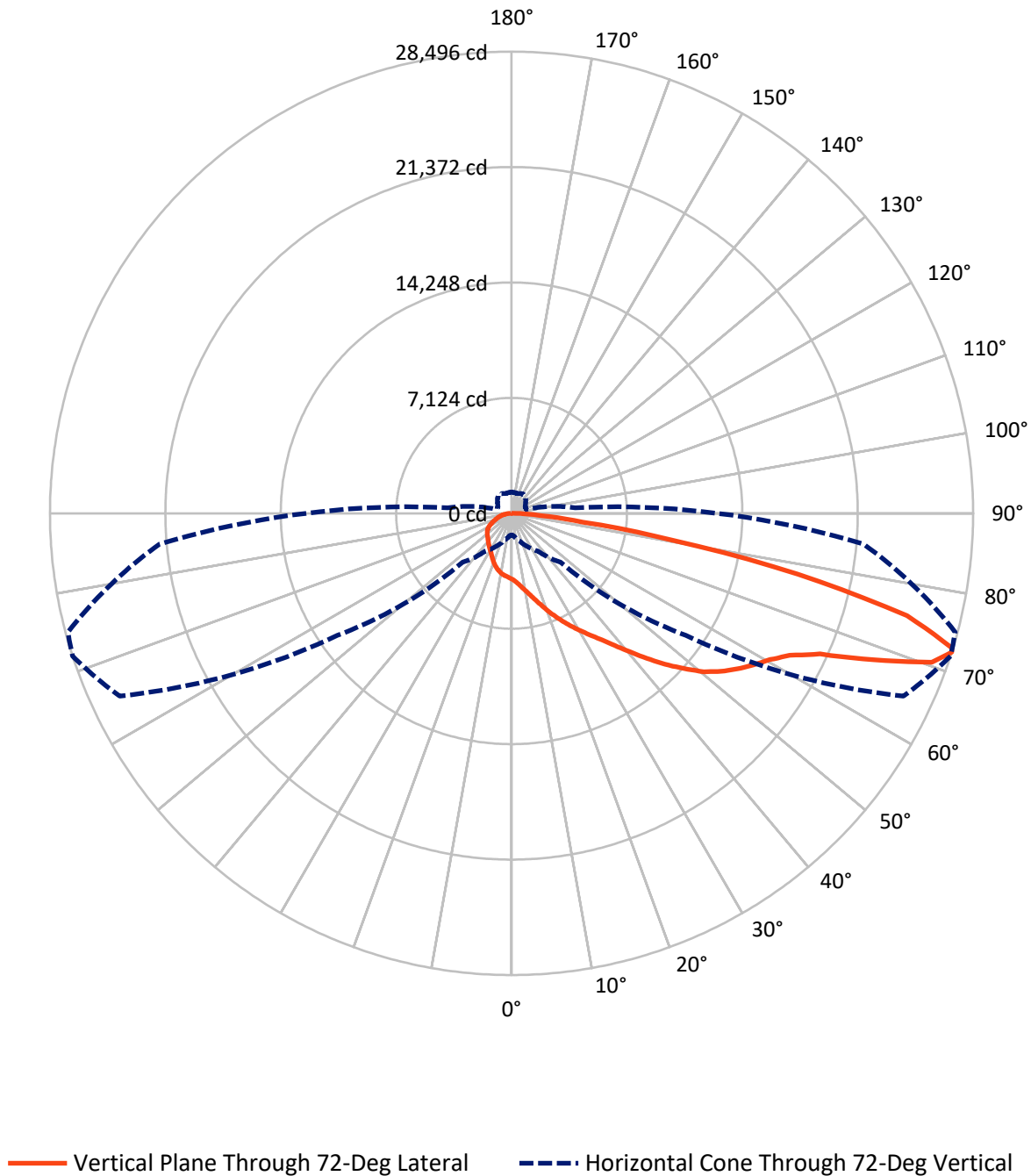
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6119.9	0.0	6119.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26870.1	0.0	26870.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	32990.0	0.0	32990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.2
10°-20°	1314.2	4.0
20°-30°	2302.9	7.0
30°-40°	3414.5	10.4
40°-50°	4994.0	15.1
50°-60°	6871.7	20.8
60°-70°	7650.2	23.2
70°-80°	5183.8	15.7
80°-90°	852.0	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°	32990.0	100.0
0°-180°	32990.0	100.0

Coefficient of Utilization



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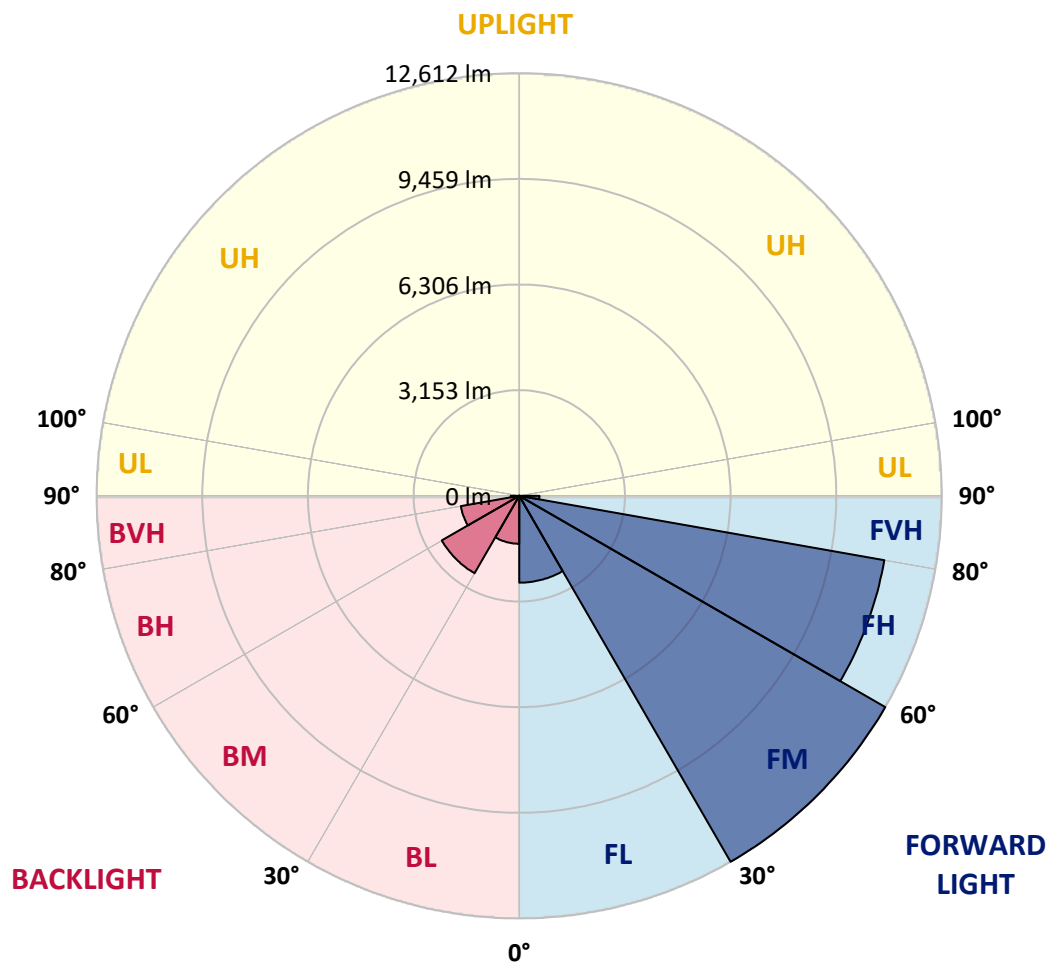
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2593.2	7.9			
FM	(30°-60°)	12612.5	38.2			
FH	(60°-80°)	11063.5	33.5			G4/12000
FVH	(80°-90°)	601.0	1.8			G4/750
BL	(0°-30°)	1430.6	4.3	B3/2500		
BM	(30°-60°)	2667.7	8.1	B3/5000		
BH	(60°-80°)	1770.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	251.0	0.8			G3/500
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°	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6
2.5°	4483.5	4476.6	4452.8	4452.8	4407.4	4368.7	4296.0	4247.2	4189.3	4168.8	4100.7
5°	4917.4	4919.7	4890.1	4869.7	4802.7	4720.9	4597.1	4484.6	4372.1	4326.7	4187.0
7.5°	5282.0	5277.5	5269.5	5252.5	5190.0	5105.9	4939.0	4772.0	4606.1	4538.0	4297.2
10°	5516.0	5526.2	5533.1	5541.0	5514.9	5454.7	5296.8	5093.5	4876.5	4783.3	4428.9
12.5°	5634.1	5652.3	5684.1	5738.7	5781.8	5775.0	5660.3	5444.4	5186.6	5069.6	4593.6
15°	5703.4	5727.3	5777.3	5875.0	5996.5	6065.8	6035.1	5839.7	5552.4	5408.1	4794.7
17.5°	5746.6	5765.9	5843.2	5973.8	6154.4	6338.4	6419.1	6255.5	5965.8	5801.1	5025.3
20°	5776.1	5790.9	5887.5	6040.8	6274.8	6567.9	6792.8	6751.9	6421.3	6207.8	5266.1
22.5°	5842.0	5854.5	5946.5	6101.0	6360.0	6738.3	7152.9	7214.2	6901.8	6659.9	5524.0
25°	6026.0	6026.0	6103.3	6211.2	6454.3	6885.9	7457.3	7728.8	7392.5	7110.8	5762.5
27.5°	6377.0	6373.6	6402.0	6439.5	6623.5	7035.9	7728.8	8183.1	7901.4	7593.6	5994.2
30°	6792.8	6815.5	6818.9	6800.7	6887.1	7223.3	7979.8	8662.5	8413.7	8082.0	6231.6
32.5°	7327.8	7342.6	7325.5	7265.3	7252.8	7489.1	8226.3	9164.6	8968.1	8592.1	6448.6
35°	8007.1	7978.7	7925.3	7802.6	7685.6	7844.6	8508.0	9666.7	9590.5	9208.9	6747.3
37.5°	8735.2	8736.3	8670.5	8392.2	8230.9	8299.0	8896.5	10235.7	10343.7	9942.7	7130.1
40°	9319.1	9349.7	9390.6	9024.9	8815.9	8910.1	9390.6	10895.7	11234.2	10812.8	7628.8
42.5°	9726.9	9762.1	9877.9	9648.5	9431.5	9606.4	9972.2	11600.0	12233.8	11816.9	8212.7
45°	10158.5	10177.8	10259.6	10160.8	10022.2	10416.4	10627.6	12329.2	13291.4	12887.0	8865.8
47.5°	10612.9	10633.3	10717.4	10651.5	10578.8	11172.9	11311.5	13016.5	14304.6	14062.6	9563.3
50°	11174.0	11187.6	11267.2	11147.9	11170.6	11743.1	11922.6	13646.9	15366.7	15119.1	10263.0
52.5°	11939.6	11943.0	12053.2	11945.3	11838.5	12161.1	12448.5	14241.0	16199.3	16082.3	10962.7
55°	12539.4	12575.7	12937.0	12914.2	12852.9	12540.5	12888.1	14806.7	16942.2	16997.9	11705.6
57.5°	12156.6	12298.6	13030.1	13545.8	14047.9	13484.5	13482.2	15443.9	17632.8	17896.4	12522.3
60°	10646.9	10840.1	11918.0	13061.9	14632.9	15127.0	14715.8	16222.0	18330.3	18786.9	13545.8
62.5°	7603.8	7921.9	9382.7	11209.2	13830.9	16215.2	17226.2	17456.8	19278.8	19818.3	14876.0
65°	3843.9	4084.8	5309.3	7509.5	11050.2	15504.1	19954.7	20160.3	20927.0	21406.4	16924.0
67.5°	2335.4	2426.3	3023.8	4176.8	6774.6	12077.1	20845.2	24666.4	24116.6	24371.1	19844.5
70°	1720.9	1787.9	2160.5	2773.9	3896.2	7087.0	18112.2	27882.2	27521.0	27492.6	22002.7
72°	1340.4	1389.2	1718.6	2241.2	2848.9	4251.7	13127.8	26695.2	28495.6	28352.5	21805.1
72.5°	1271.1	1314.3	1614.1	2109.4	2692.1	3854.2	11803.3	25894.4	28425.2	28360.4	21549.5
75°	1000.7	1031.4	1195.0	1631.2	2107.1	2186.6	6467.9	20067.1	25216.2	26264.7	19382.1
77.5°	828.1	832.6	919.0	1187.0	1642.5	1546.0	3177.2	13922.9	18056.5	19209.5	13729.8
80°	674.7	680.4	721.3	832.6	1242.7	1143.9	1508.5	8005.9	10109.7	10122.2	6529.2
82.5°	537.3	538.4	583.9	608.9	892.8	817.9	864.4	3758.7	4417.6	4249.5	2346.8
85°	378.3	370.3	570.2	499.8	583.9	524.8	477.1	1488.1	1826.6	1747.0	734.9
87.5°	126.1	130.6	253.3	323.7	340.8	297.6	212.4	570.2	689.5	683.8	232.9
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°	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6	4058.6
2.5°	4079.1	4042.7	3989.3	3930.3	3883.7	3836.0	3800.8	3782.6	3762.2	3745.1	3765.6
5°	4122.2	4054.1	3940.5	3829.2	3747.4	3674.7	3622.4	3595.2	3570.2	3553.1	3555.4
7.5°	4192.7	4082.5	3891.7	3729.2	3615.6	3537.2	3483.9	3465.7	3449.8	3445.2	3450.9
10°	4267.6	4105.2	3826.9	3611.1	3481.6	3416.8	3393.0	3405.5	3416.8	3427.1	3438.4
12.5°	4352.8	4125.6	3732.6	3472.5	3362.3	3337.3	3361.2	3415.7	3455.5	3479.3	3494.1
15°	4464.2	4143.8	3623.6	3333.9	3260.1	3288.5	3369.1	3463.4	3532.7	3577.0	3583.8
17.5°	4566.4	4142.7	3483.9	3194.2	3177.2	3260.1	3381.6	3514.5	3607.7	3670.1	3682.6
20°	4672.0	4112.0	3321.4	3057.9	3093.1	3229.4	3387.3	3547.5	3659.9	3732.6	3749.7
22.5°	4770.9	4058.6	3143.1	2934.1	3022.7	3188.5	3365.7	3528.2	3640.6	3699.7	3717.9
25°	4837.9	3965.5	2962.5	2829.6	2960.2	3138.5	3295.3	3425.9	3510.0	3539.5	3544.1
27.5°	4871.9	3843.9	2792.1	2738.7	2895.5	3056.8	3164.7	3229.4	3253.3	3251.0	3246.5
30°	4876.5	3683.8	2645.6	2664.9	2820.5	2936.3	2987.5	2975.0	2944.3	2892.0	2896.6
32.5°	4861.7	3503.2	2522.9	2594.4	2725.1	2789.8	2792.1	2731.9	2650.1	2567.2	2544.5
35°	4866.3	3326.0	2415.0	2514.9	2609.2	2637.6	2611.5	2522.9	2411.6	2304.8	2282.1
37.5°	4916.2	3171.5	2321.8	2422.9	2480.8	2487.7	2450.2	2357.0	2275.2	2170.7	2161.6
40°	5035.5	3061.3	2233.2	2319.5	2352.5	2355.9	2302.5	2236.6	2243.4	2187.8	2186.6
42.5°	5250.2	3013.6	2154.8	2211.6	2232.1	2238.9	2198.0	2156.0	2215.0	2178.7	2166.2
45°	5527.4	3024.9	2089.0	2106.0	2143.5	2175.3	2150.3	2099.2	2121.9	1964.0	1911.7
47.5°	5847.7	3097.6	2036.7	2015.1	2079.9	2140.1	2101.4	2024.2	1943.6	1786.8	1757.3
50°	6222.6	3210.1	1989.0	1925.4	2010.6	2092.4	2053.7	1943.6	1822.0	1745.9	1735.7
52.5°	6613.3	3347.5	1941.3	1826.6	1923.1	2056.0	2036.7	1925.4	1775.4	1700.5	1686.8
55°	7056.3	3486.1	1881.1	1711.8	1828.8	2039.0	2028.7	1859.5	1740.2	1698.2	1688.0
57.5°	7607.2	3644.0	1801.6	1592.6	1740.2	1977.6	1945.8	1819.7	1703.9	1672.1	1668.7
60°	8325.1	3876.9	1686.8	1465.3	1632.3	1883.4	1876.5	1761.8	1645.9	1623.2	1618.7
62.5°	9402.0	4262.0	1528.9	1338.1	1511.9	1723.2	1785.7	1683.4	1584.6	1583.5	1585.7
65°	11071.8	4841.3	1357.4	1226.8	1390.4	1588.0	1680.0	1602.8	1522.1	1544.8	1548.3
67.5°	13007.4	5321.8	1189.3	1117.7	1266.5	1459.7	1584.6	1522.1	1439.2	1498.3	1499.4
70°	13651.4	4892.4	1041.6	1009.8	1138.2	1335.8	1481.2	1433.5	1349.5	1408.5	1402.9
72°	12704.1	3949.6	946.2	928.0	1041.6	1233.6	1389.2	1350.6	1267.7	1307.4	1292.7
72.5°	12405.3	3765.6	922.4	907.6	1015.5	1207.5	1365.4	1330.2	1247.2	1281.3	1267.7
75°	11066.1	3270.3	792.9	796.3	886.0	1080.3	1231.3	1220.0	1134.8	1138.2	1133.6
77.5°	8026.4	2397.9	667.9	690.6	754.2	949.6	1096.2	1089.3	996.2	979.2	975.8
80°	3724.7	1223.4	544.1	554.3	620.2	794.0	934.9	925.8	850.8	829.2	816.7
82.5°	1275.6	581.6	408.9	415.7	480.5	639.5	811.0	805.4	742.9	700.9	674.7
85°	455.5	289.7	286.3	279.4	343.0	503.2	706.5	675.9	583.9	497.5	495.3
87.5°	147.7	123.8	147.7	146.5	199.9	340.8	513.4	437.3	423.7	352.1	345.3
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)