

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: P321774

Luminaire Tested: **GAN-SA0C-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42787 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

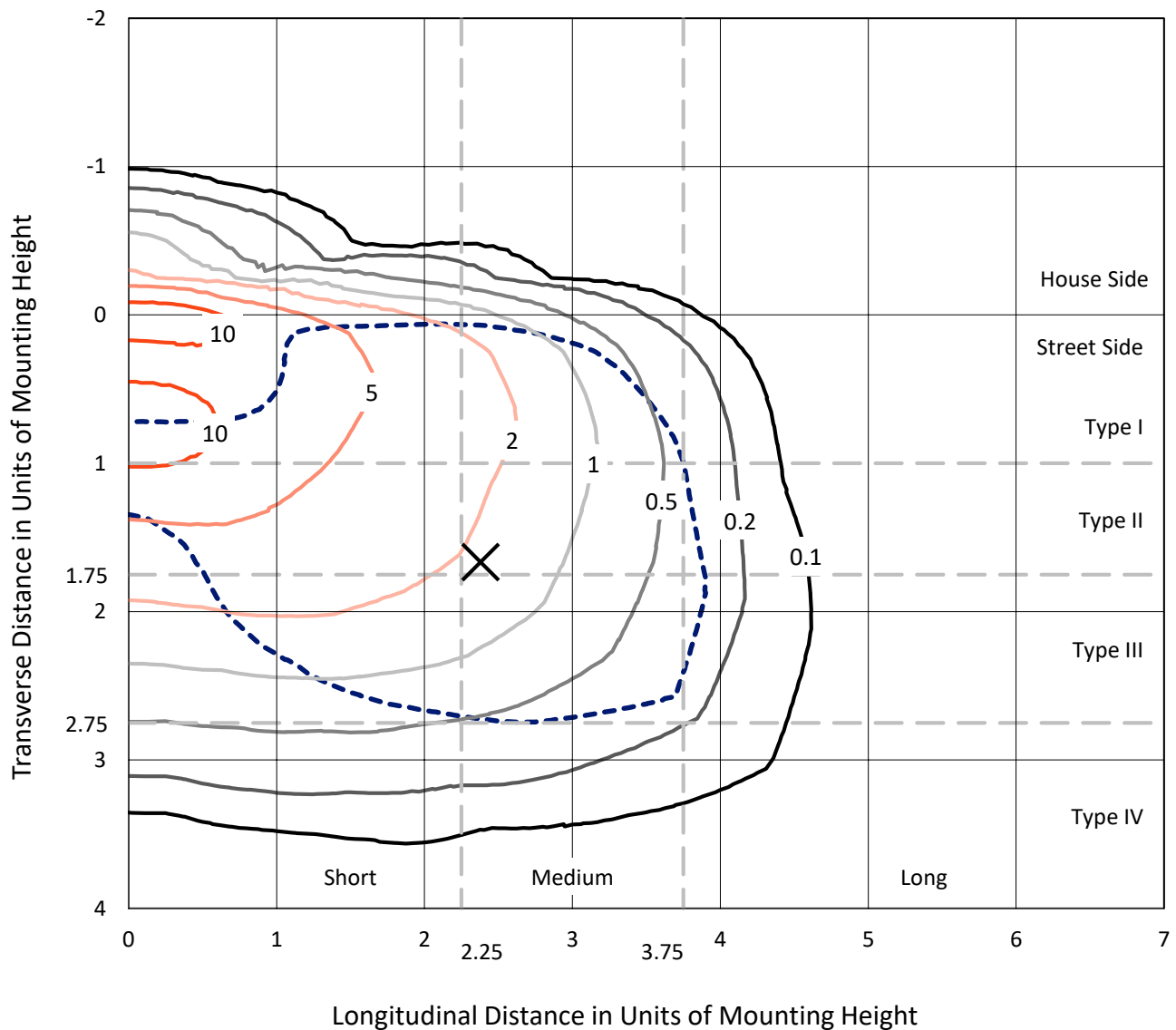
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

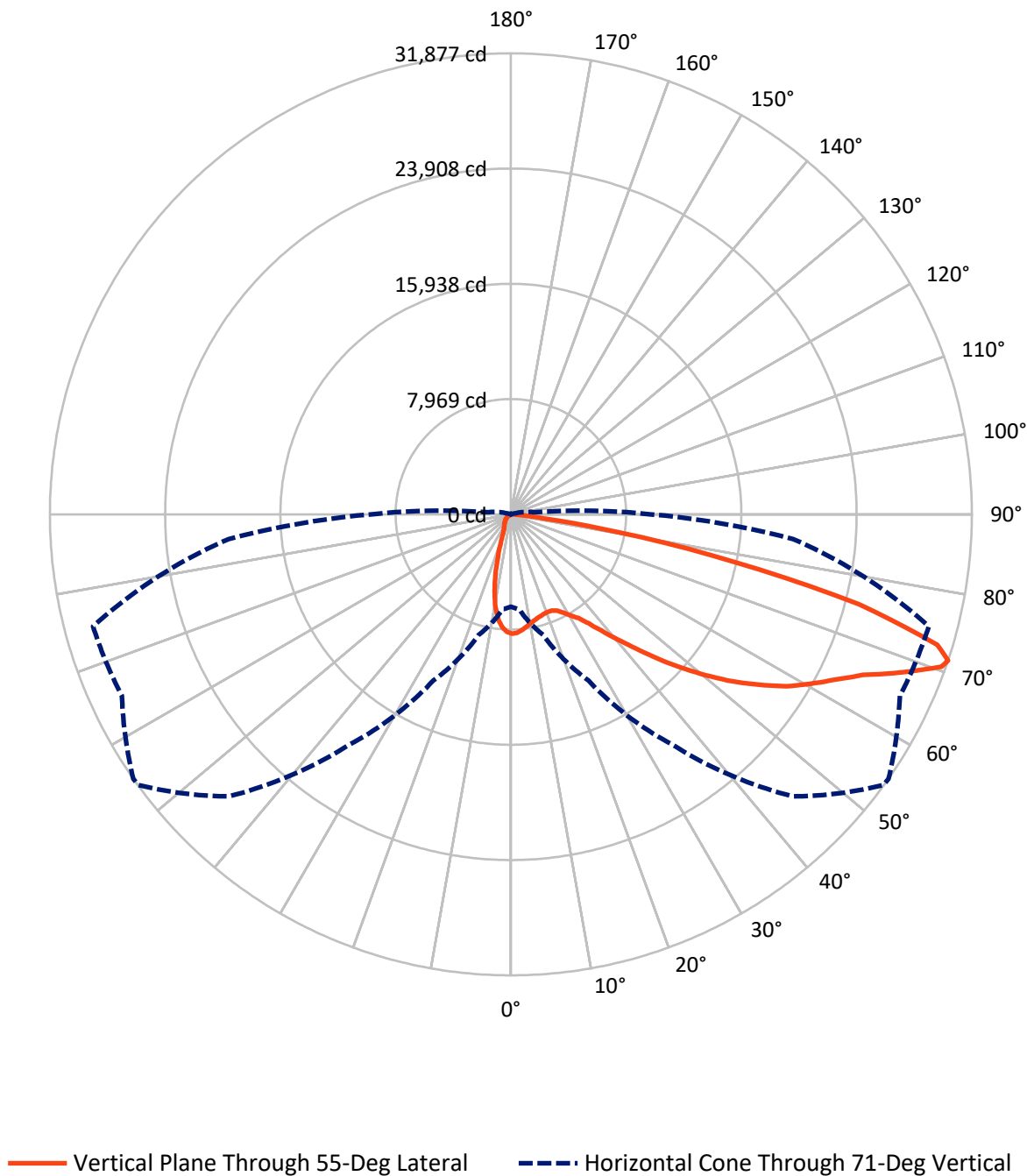
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	3387.6	0.0	3387.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	39399.4	0.0	39399.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	42787.0	0.0	42787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.6	1.6
10°-20°	1588.3	3.7
20°-30°	2552.5	6.0
30°-40°	4336.9	10.1
40°-50°	6731.4	15.7
50°-60°	9050.1	21.2
60°-70°	11071.3	25.9
70°-80°	6473.1	15.1
80°-90°	279.8	0.7
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°	42787.0	100.0
0°-180°	42787.0	100.0

Coefficient of Utilization



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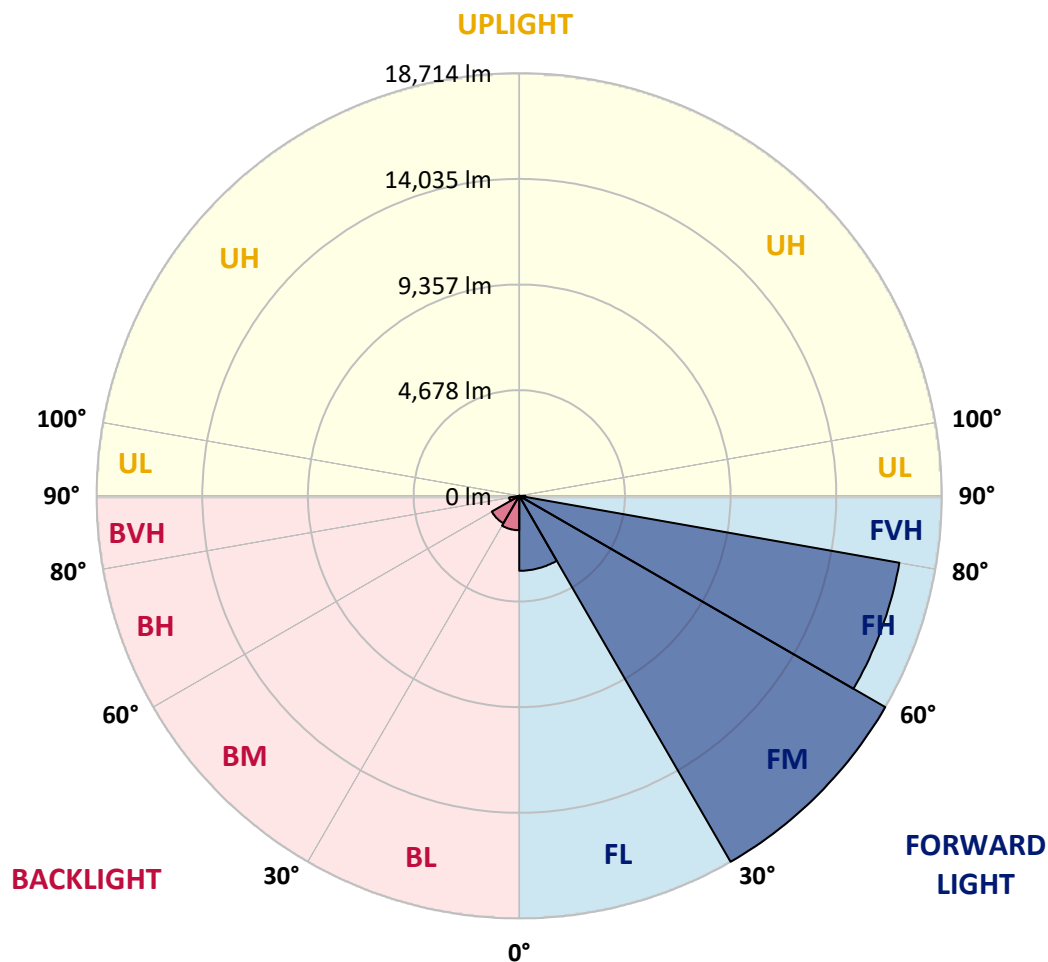
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3319.7	7.8			
FM	(30°-60°)	18713.8	43.7			
FH	(60°-80°)	17090.6	39.9			G5
FVH	(80°-90°)	275.4	0.6			G3/500
BL	(0°-30°)	1524.8	3.6	B3/2500		
BM	(30°-60°)	1404.5	3.3	B2/2500		
BH	(60°-80°)	453.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6
2.5°	8009.6	8019.2	8053.7	8069.1	8105.6	8167.1	8197.8	8199.8	8249.7	8268.9	8284.3
5°	7442.8	7500.4	7558.1	7619.5	7731.0	7878.9	8024.9	8038.4	8199.8	8318.9	8382.3
7.5°	6954.8	7006.7	7075.8	7173.8	7331.4	7563.8	7807.8	7836.6	8142.1	8413.0	8555.2
10°	6453.4	6495.6	6595.5	6739.6	6956.7	7268.0	7596.5	7644.5	8090.2	8539.8	8789.6
12.5°	5917.3	5942.3	6063.4	6270.9	6589.8	6985.5	7417.8	7481.2	8057.6	8685.8	9066.2
15°	5510.0	5521.6	5636.9	5852.0	6217.1	6731.9	7279.5	7356.3	8065.3	8860.7	9367.9
17.5°	5406.3	5412.1	5473.5	5621.5	5944.2	6505.2	7170.0	7264.1	8088.3	9031.6	9671.4
20°	5827.1	5786.7	5723.3	5700.3	5838.6	6368.8	7104.7	7210.3	8119.1	9183.4	9944.2
22.5°	6981.7	6862.6	6599.4	6247.8	6034.5	6378.4	7122.0	7227.6	8217.0	9369.8	10259.3
25°	8695.4	8530.2	8082.6	7390.9	6726.2	6655.1	7266.0	7373.6	8407.2	9592.6	10560.9
27.5°	10645.5	10482.2	9934.6	8947.1	7813.6	7202.6	7596.5	7696.4	8689.7	9790.5	10791.5
30°	12512.9	12466.8	11821.2	10699.3	9181.5	8090.2	8023.0	8107.5	8899.1	9909.6	10974.0
32.5°	14096.0	14023.0	13504.2	12413.0	10747.3	9156.5	8524.4	8549.4	9056.6	10063.3	11212.2
35°	15563.8	15473.5	15018.2	13986.5	12353.4	10459.1	9296.8	9260.3	9400.5	10372.6	11558.0
37.5°	16845.2	16927.8	16422.6	15440.8	13794.3	11813.6	10338.1	10228.6	9938.5	10876.0	12059.5
40°	17917.3	17917.3	17654.1	16835.6	15350.5	13214.1	11515.8	11371.7	10747.3	11652.2	12695.4
42.5°	18303.4	18386.0	18484.0	18021.0	16743.4	14670.4	12828.0	12678.1	11886.6	12753.0	13498.5
45°	18326.5	18457.1	18958.6	18956.6	18001.8	16117.1	14307.3	14236.2	13346.7	14167.1	14493.7
47.5°	18001.8	18165.1	18991.2	19460.0	18998.9	17463.9	15925.0	15836.6	15062.3	15900.0	15535.0
50°	17500.4	17681.0	18641.6	19657.9	19677.1	18635.8	17629.1	17496.5	16950.9	17880.8	16610.8
52.5°	16603.2	16952.8	18328.4	19704.0	20122.8	19648.3	19250.6	19193.0	19064.2	19788.5	17467.7
55°	14683.9	15071.9	17542.6	19719.4	20535.9	20545.5	20770.3	20785.6	21045.0	21571.4	18105.5
57.5°	13777.0	13996.1	16170.9	19792.4	21148.8	21563.7	22318.8	22437.9	22839.4	23264.0	18833.7
60°	13206.4	13465.8	15494.6	19692.5	22111.3	22899.0	23753.9	23794.3	24224.6	25010.4	19819.3
62.5°	12751.1	13006.6	15068.1	19308.2	23192.9	24505.1	25156.4	25160.3	25483.0	27091.1	20939.3
65°	11627.2	11842.4	14205.5	18876.0	23907.6	26094.0	26785.6	26760.6	27023.8	29285.1	22240.0
67.5°	10001.9	10167.1	12443.7	17237.2	23638.7	27538.7	29244.8	29162.2	28843.2	31181.3	22751.1
70°	7732.9	7792.5	9807.8	14364.9	21118.0	28094.0	31621.3	31579.0	29959.5	30841.3	20877.9
71°	6391.9	6587.9	8643.6	12678.1	19429.3	27581.0	31851.9	31876.8	29679.0	29915.3	19588.7
72.5°	3711.8	3878.9	6265.1	9736.7	16495.6	25440.8	30656.9	30837.5	28368.7	27210.2	16731.9
75°	795.4	851.1	2322.8	4712.7	9073.9	17830.8	24197.7	24841.3	23121.8	18510.9	10084.5
77.5°	553.3	597.5	995.2	2138.3	2999.0	8810.7	15031.6	15757.8	13813.5	6956.7	3227.6
80°	438.0	488.0	776.2	1056.7	810.8	2841.5	7041.3	7485.1	4607.1	1552.3	543.7
82.5°	244.0	290.1	605.2	570.6	311.2	539.9	1971.2	2228.6	922.2	313.2	128.7
85°	71.1	86.5	390.0	415.0	132.6	103.7	336.2	416.9	174.8	82.6	57.6
87.5°	0.0	0.0	188.3	159.5	38.4	15.4	30.7	34.6	34.6	34.6	38.4
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°	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6	8251.6
2.5°	8284.3	8297.7	8249.7	8186.3	8119.1	8036.5	7950.0	7882.8	7880.8	7848.2	7815.5
5°	8386.1	8378.4	8245.9	8044.1	7805.9	7558.1	7321.8	7054.7	6966.3	6856.8	6820.3
7.5°	8574.4	8520.6	8240.1	7798.2	7275.6	6756.9	6220.9	5681.0	5450.5	5243.0	5206.5
10°	8810.7	8708.9	8203.6	7429.3	6470.7	5513.9	4705.1	3971.2	3648.4	3400.6	3389.0
12.5°	9056.6	8901.0	8101.8	6872.2	5415.9	4071.1	3139.3	2416.9	2147.9	1975.0	1990.4
15°	9314.1	9081.6	7882.8	6121.0	4215.1	2762.7	1928.9	1504.3	1396.7	1352.5	1364.1
17.5°	9577.3	9206.5	7577.3	5216.1	3029.8	1782.9	1335.2	1216.1	1216.1	1225.7	1229.6
20°	9805.9	9273.7	7127.7	4201.7	2053.8	1298.7	1168.1	1150.8	1160.4	1175.8	1177.7
22.5°	10032.6	9277.6	6541.7	3173.9	1437.1	1137.4	1112.4	1104.7	1110.5	1127.8	1129.7
25°	10217.0	9231.4	5807.8	2257.4	1147.0	1072.0	1060.5	1056.7	1060.5	1081.6	1081.6
27.5°	10292.0	9064.3	4912.6	1586.9	1027.9	999.0	995.2	999.0	1004.8	1020.2	1022.1
30°	10299.6	8772.3	3936.6	1148.9	931.8	901.1	908.7	922.2	916.4	912.6	916.4
32.5°	10318.9	8434.1	2985.6	945.2	851.1	803.1	793.5	793.5	770.4	757.0	749.3
35°	10382.3	8036.5	2165.2	849.2	768.5	712.8	676.3	634.0	589.8	566.8	561.0
37.5°	10482.2	7619.5	1550.4	785.8	695.5	632.1	562.9	488.0	424.6	407.3	407.3
40°	10664.7	7189.2	1147.0	735.8	637.8	559.1	455.3	357.3	299.7	290.1	290.1
42.5°	10952.9	6735.8	914.5	691.6	587.9	484.1	347.7	259.4	217.1	211.3	209.4
45°	11252.6	6236.3	799.2	649.4	534.1	397.7	257.4	192.1	167.1	161.4	161.4
47.5°	11552.3	5704.1	743.5	609.0	482.2	309.3	192.1	151.8	140.2	140.2	142.2
50°	11805.9	5148.9	703.2	564.8	415.0	234.4	151.8	128.7	124.9	132.6	134.5
52.5°	11869.3	4603.2	653.2	509.1	332.4	178.7	124.9	113.4	113.4	113.4	113.4
55°	11830.9	4180.6	587.9	440.0	245.9	142.2	107.6	99.9	98.0	98.0	98.0
57.5°	11961.5	3930.8	470.7	342.0	176.8	115.3	94.1	88.4	84.5	82.6	82.6
60°	12224.7	3767.5	336.2	245.9	132.6	96.1	80.7	74.9	69.2	65.3	65.3
62.5°	12574.4	3625.3	249.8	182.5	101.8	76.8	67.2	61.5	53.8	50.0	50.0
65°	12843.3	3371.7	190.2	136.4	76.8	61.5	51.9	50.0	38.4	34.6	32.7
67.5°	12432.2	2814.6	153.7	99.9	57.6	48.0	40.3	38.4	23.1	19.2	19.2
70°	10662.8	1959.6	123.0	73.0	42.3	38.4	32.7	25.0	17.3	15.4	15.4
71°	9669.5	1636.9	111.4	61.5	36.5	36.5	30.7	21.1	15.4	13.4	13.4
72.5°	8032.6	1162.3	94.1	48.0	32.7	38.4	32.7	19.2	15.4	13.4	11.5
75°	4662.8	486.1	65.3	32.7	25.0	46.1	42.3	17.3	11.5	9.6	9.6
77.5°	1402.5	178.7	36.5	21.1	19.2	40.3	48.0	15.4	5.8	1.9	1.9
80°	255.5	76.8	23.1	13.4	13.4	25.0	36.5	7.7	0.0	0.0	0.0
82.5°	90.3	38.4	13.4	7.7	5.8	11.5	17.3	0.0	0.0	0.0	0.0
85°	51.9	26.9	7.7	3.8	0.0	1.9	3.8	0.0	0.0	0.0	0.0
87.5°	34.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)