

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: P323381

Luminaire Tested: **GAN-SA7D-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36122 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

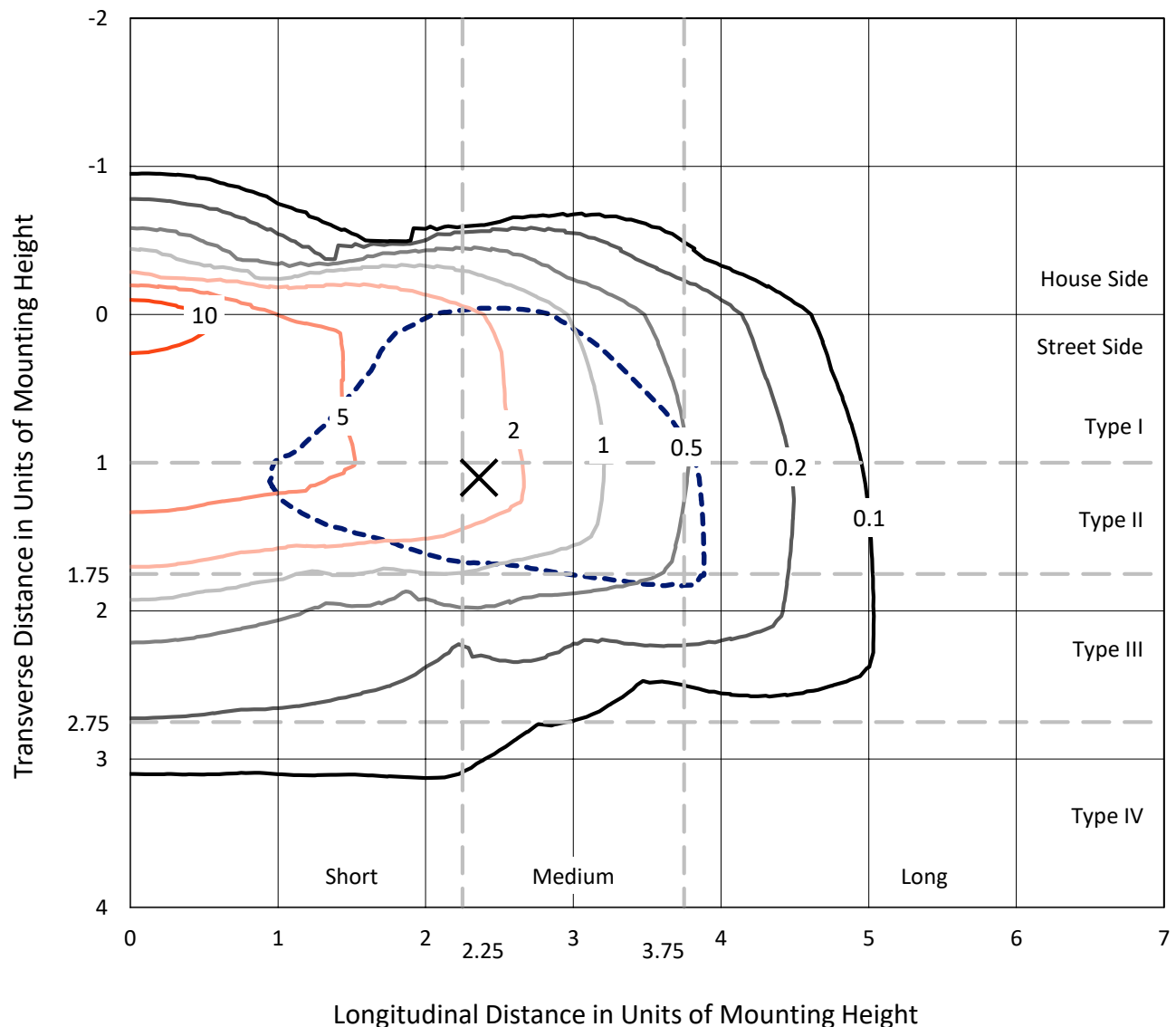
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

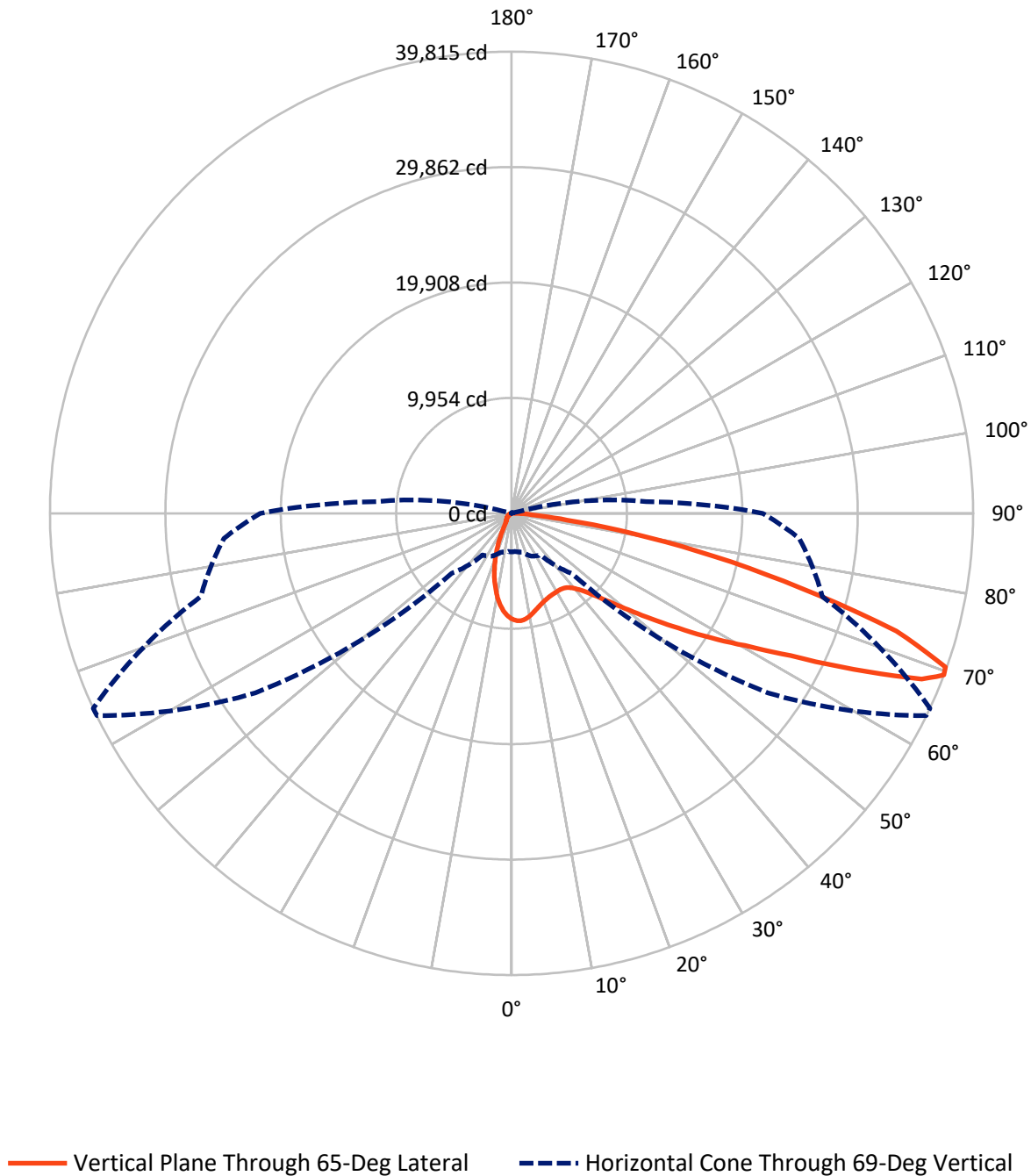
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	4257.9	0.0	4257.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	31864.1	0.0	31864.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	36122.0	0.0	36122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.3	2.1
10°-20°	1670.9	4.6
20°-30°	2314.3	6.4
30°-40°	3226.8	8.9
40°-50°	5015.5	13.9
50°-60°	8051.8	22.3
60°-70°	9108.0	25.2
70°-80°	5349.2	14.8
80°-90°	622.3	1.7
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°	36122.0	100.0
0°-180°	36122.0	100.0

Coefficient of Utilization



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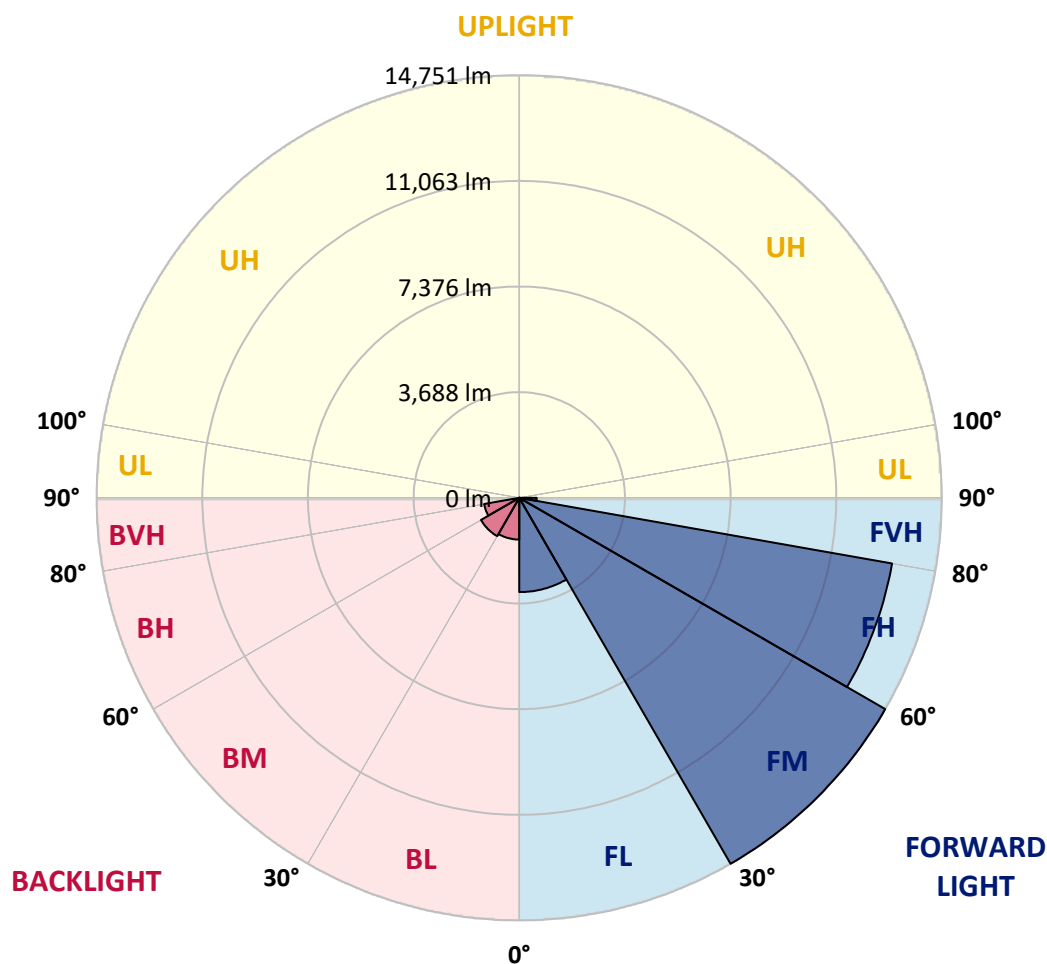
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3291.6	9.1			
FM	(30°-60°)	14751.2	40.8			
FH	(60°-80°)	13213.1	36.6			G5
FVH	(80°-90°)	608.3	1.7			G4/750
BL	(0°-30°)	1456.9	4.0	B3/2500		
BM	(30°-60°)	1543.0	4.3	B2/2500		
BH	(60°-80°)	1244.1	3.4	B3/2500		G3/2500
BVH	(80°-90°)	14.0	0.0			G1/100
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°	55°	64°	65°	75°	85°
0°	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1
2.5°	9209.1	9186.2	9204.5	9244.3	9264.1	9264.1	9279.4	9261.1	9267.2	9222.9	9158.7
5°	8632.9	8597.7	8648.1	8759.7	8897.3	9015.0	9189.2	9280.9	9290.1	9291.6	9216.7
7.5°	8012.3	7980.2	8055.1	8186.5	8363.9	8582.4	8886.6	9152.5	9167.8	9311.5	9256.5
10°	7507.9	7485.0	7572.1	7712.7	7920.6	8165.1	8538.1	8908.0	8952.3	9270.2	9250.4
12.5°	7107.4	7089.1	7171.6	7333.7	7546.1	7816.7	8206.4	8635.9	8695.5	9177.0	9219.8
15°	6815.5	6812.4	6881.2	7037.1	7272.5	7524.7	7923.6	8383.7	8452.5	9076.1	9215.2
17.5°	6662.7	6667.2	6717.7	6850.7	7052.4	7303.1	7685.2	8171.3	8246.2	8985.9	9238.1
20°	6647.4	6652.0	6679.5	6754.4	6917.9	7139.5	7491.1	7992.4	8070.4	8918.7	9274.8
22.5°	6781.9	6778.8	6786.5	6778.8	6870.5	7038.7	7362.7	7854.9	7945.0	8874.4	9303.9
25°	7040.2	7035.6	7032.5	6976.0	6914.9	7005.0	7309.2	7776.9	7862.5	8842.3	9320.7
27.5°	7399.4	7396.3	7391.7	7298.5	7115.1	7058.5	7315.3	7747.9	7819.7	8816.3	9317.6
30°	7871.7	7893.1	7887.0	7757.0	7471.2	7222.1	7379.5	7732.6	7795.3	8765.8	9285.5
32.5°	8426.5	8469.3	8502.9	8363.9	8006.2	7546.1	7527.8	7749.4	7795.3	8727.6	9227.4
35°	9002.8	9057.8	9181.6	9132.7	8661.9	8033.7	7783.0	7850.3	7888.5	8749.0	9199.9
37.5°	9569.8	9635.5	9904.6	10046.7	9520.9	8678.7	8180.4	8099.4	8119.3	8879.0	9230.5
40°	10228.6	10328.0	10736.1	10965.3	10546.5	9542.3	8775.0	8527.4	8535.0	9164.8	9372.6
42.5°	11093.7	11196.1	11637.9	11997.1	11702.1	10633.6	9582.1	9181.6	9173.9	9699.7	9707.4
45°	12148.4	12255.4	12712.4	13111.3	12978.3	11926.7	10615.3	10136.9	10127.7	10543.5	10341.7
47.5°	13343.6	13449.1	13857.2	14268.4	14412.1	13436.9	11931.3	11440.7	11419.3	11715.8	11321.5
50°	14369.3	14438.0	14814.0	15367.4	16015.4	15292.5	13568.3	13096.0	13073.1	13273.3	12759.8
52.5°	14742.2	14781.9	15164.1	15939.0	17556.1	17805.3	15718.9	15110.6	15093.8	15180.9	14675.0
55°	13987.1	14059.0	14528.2	15677.6	18390.7	20645.2	18433.5	17605.1	17478.2	17290.2	16677.3
57.5°	11929.8	12044.4	12548.8	14077.3	18000.9	22898.2	22422.8	20426.6	20240.2	19090.7	18305.1
60°	8938.6	9079.2	9498.0	11147.2	15920.7	23700.6	26782.1	23570.7	23150.4	20524.5	19801.5
62.5°	6133.8	6204.1	6488.4	7562.9	11725.0	22386.1	30429.0	27781.7	27014.4	22083.5	21420.1
65°	4684.8	4709.3	4825.4	5195.3	6982.1	18184.3	31879.5	33337.7	32409.9	23948.3	23099.9
67.5°	3775.3	3755.5	3916.0	4444.8	4675.6	11093.7	30187.5	38594.2	38160.1	26441.2	24790.4
69°	3329.0	3301.5	3465.1	4079.5	4391.3	7333.7	26986.9	39787.9	39815.4	27757.2	24906.6
70°	2995.8	3014.2	3176.2	3862.5	4295.0	5756.3	23929.9	39483.7	39700.8	28249.4	24209.6
72.5°	2000.8	2049.7	2375.3	3206.8	4130.0	4356.2	14448.7	33881.9	34716.4	27141.2	20770.5
75°	1128.0	1164.7	1551.4	2418.1	3891.5	4148.3	7631.7	24961.6	25768.7	22696.4	16017.0
77.5°	553.3	573.2	877.3	1560.6	3254.1	3952.7	4328.7	16955.4	17877.1	14814.0	9059.3
80°	233.9	244.6	438.7	962.9	2326.3	3772.3	3214.4	10434.9	10549.6	5803.6	2413.5
82.5°	90.2	93.2	184.9	600.7	1478.0	2940.8	2688.6	4947.7	4828.5	1092.9	550.3
85°	10.7	12.2	67.3	360.7	822.3	1513.2	2184.2	2132.2	1973.3	217.0	282.8
87.5°	0.0	0.0	4.6	110.1	244.6	709.2	1135.7	885.0	797.9	70.3	146.7
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°	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1	9128.1
2.5°	9105.2	9089.9	9007.3	8888.1	8775.0	8634.4	8499.9	8418.9	8354.7	8311.9	8362.3
5°	9129.6	9062.4	8811.7	8490.7	8175.8	7821.2	7491.1	7211.4	7101.3	6979.0	7034.1
7.5°	9122.0	8995.1	8544.2	7972.6	7394.8	6797.2	6231.6	5796.0	5569.8	5348.2	5404.7
10°	9083.8	8869.8	8186.5	7339.8	6474.6	5615.6	4813.2	4203.3	3862.5	3553.7	3598.0
12.5°	8999.7	8701.6	7764.7	6615.3	5458.2	4325.6	3385.6	2604.5	2185.7	2000.8	2023.7
15°	8949.3	8538.1	7318.4	5881.6	4373.0	3012.6	2069.6	1539.2	1348.1	1287.0	1294.6
17.5°	8924.8	8380.7	6856.8	5042.5	3263.3	1918.2	1337.4	1180.0	1138.7	1128.0	1131.1
20°	8900.3	8221.7	6381.4	4212.5	2248.4	1290.0	1099.0	1053.1	1037.8	1024.1	1027.1
22.5°	8859.1	8068.9	5870.9	3371.8	1516.3	1047.0	990.5	946.1	914.0	897.2	900.3
25°	8808.6	7908.4	5349.7	2511.3	1106.6	933.9	880.4	817.7	779.5	749.0	750.5
27.5°	8727.6	7711.2	4811.7	1828.1	929.3	836.1	764.2	695.5	631.3	596.1	596.1
30°	8614.5	7488.0	4214.0	1308.4	833.0	739.8	652.7	567.1	498.3	466.2	463.1
32.5°	8489.2	7255.7	3610.3	992.0	756.6	649.6	550.3	460.1	398.9	372.9	371.4
35°	8382.2	7005.0	3008.1	831.5	680.2	562.5	454.0	377.5	328.6	307.2	305.7
37.5°	8313.4	6754.4	2421.1	742.8	611.4	481.5	380.6	311.8	276.7	259.8	258.3
40°	8302.7	6567.9	1884.6	675.6	547.2	409.6	317.9	264.4	232.3	214.0	212.5
42.5°	8441.8	6460.9	1445.9	619.0	481.5	347.0	270.5	226.2	192.6	174.2	172.7
45°	8807.1	6494.5	1112.7	568.6	415.7	293.5	229.3	188.0	157.4	143.7	140.6
47.5°	9473.5	6726.8	885.0	518.2	353.1	249.1	195.6	155.9	129.9	116.2	114.6
50°	10659.6	7272.5	739.8	463.1	295.0	212.5	162.0	126.9	105.5	93.2	91.7
52.5°	12234.0	8244.6	660.3	409.6	244.6	180.4	133.0	100.9	82.5	73.4	71.8
55°	13970.3	9421.6	608.3	351.6	200.2	149.8	105.5	79.5	64.2	56.6	53.5
57.5°	15665.4	10441.1	559.4	295.0	166.6	122.3	84.1	62.7	50.4	42.8	41.3
60°	17222.9	11378.0	502.9	236.9	136.0	96.3	65.7	48.9	39.7	32.1	32.1
62.5°	18890.5	12102.5	424.9	184.9	111.6	73.4	53.5	44.3	32.1	27.5	26.0
65°	20657.4	12640.5	333.2	143.7	87.1	55.0	44.3	45.9	26.0	19.9	18.3
67.5°	21962.8	12533.5	246.1	113.1	67.3	42.8	42.8	48.9	22.9	15.3	13.8
69°	21675.4	11663.8	206.3	97.8	58.1	36.7	39.7	48.9	21.4	13.8	12.2
70°	20842.4	10700.9	181.9	87.1	52.0	33.6	38.2	47.4	19.9	13.8	12.2
72.5°	17357.4	8059.7	142.1	65.7	41.3	27.5	32.1	41.3	19.9	13.8	10.7
75°	13056.3	5158.6	108.5	47.4	30.6	21.4	24.5	30.6	19.9	12.2	10.7
77.5°	7104.4	1860.2	78.0	32.1	21.4	16.8	16.8	22.9	18.3	9.2	6.1
80°	1826.5	467.7	48.9	21.4	16.8	12.2	10.7	15.3	10.7	1.5	0.0
82.5°	450.9	105.5	26.0	15.3	12.2	4.6	4.6	7.6	4.6	0.0	0.0
85°	247.6	52.0	16.8	10.7	6.1	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	126.9	15.3	4.6	3.1	1.5	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)