

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: P323134

Luminaire Tested: **GAN-SA0C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323134
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-SA0C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 48494 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

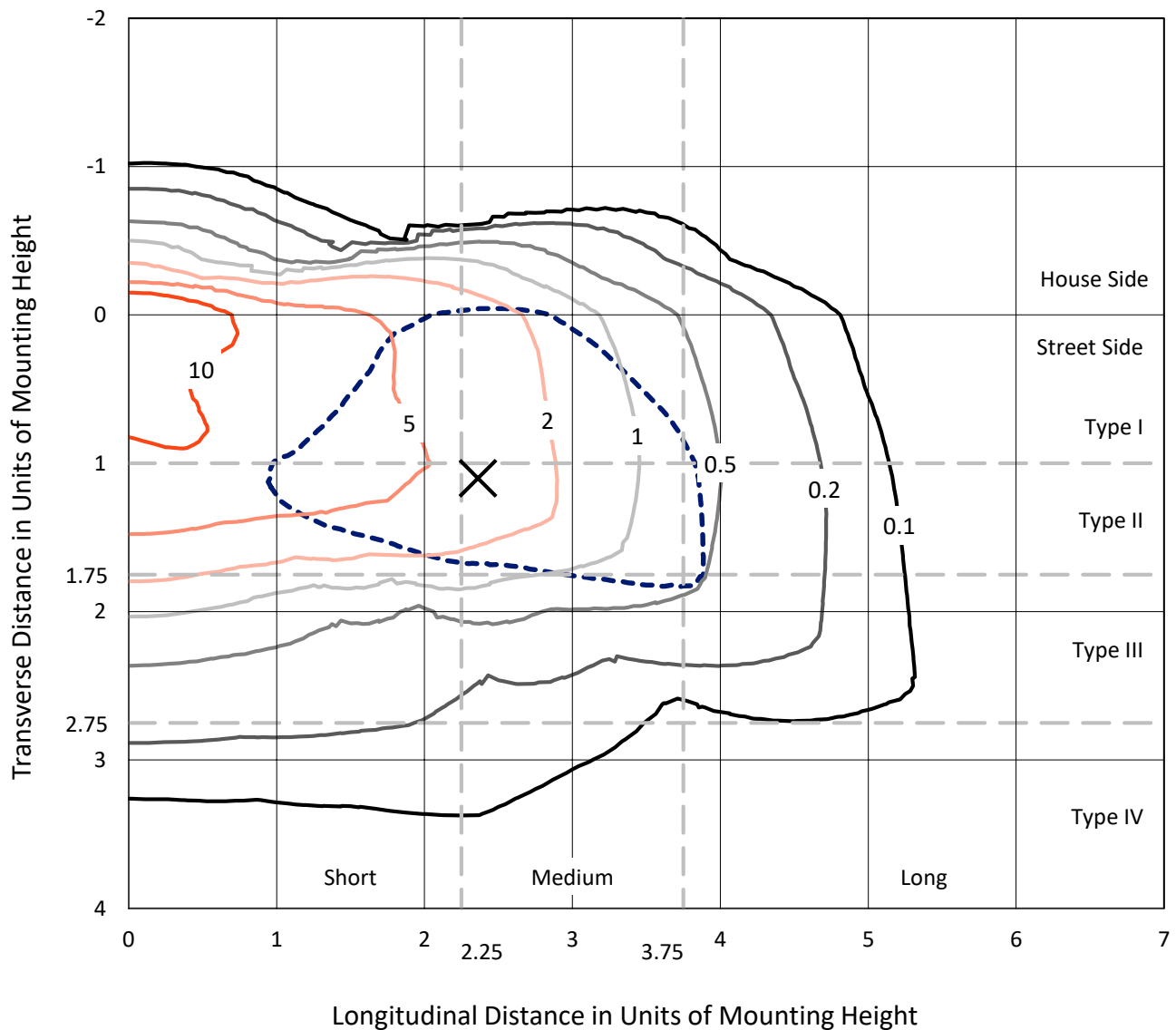
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

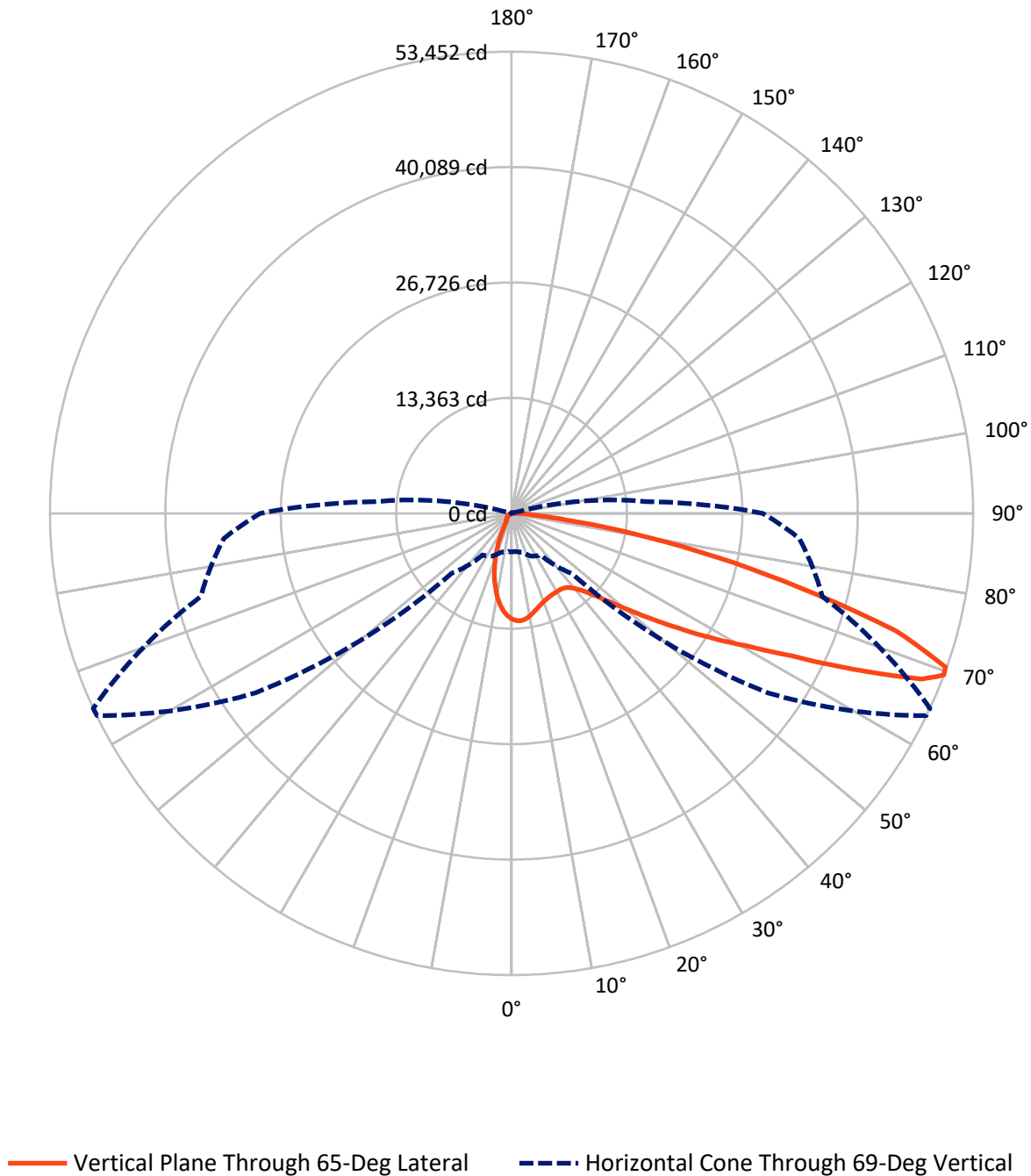
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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	5716.3	0.0	5716.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	42777.7	0.0	42777.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	48494.0	0.0	48494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.7	2.1
10°-20°	2243.2	4.6
20°-30°	3106.9	6.4
30°-40°	4332.0	8.9
40°-50°	6733.4	13.9
50°-60°	10809.7	22.3
60°-70°	12227.5	25.2
70°-80°	7181.3	14.8
80°-90°	835.4	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°	48494.0	100.0
0°-180°	48494.0	100.0

Coefficient of Utilization



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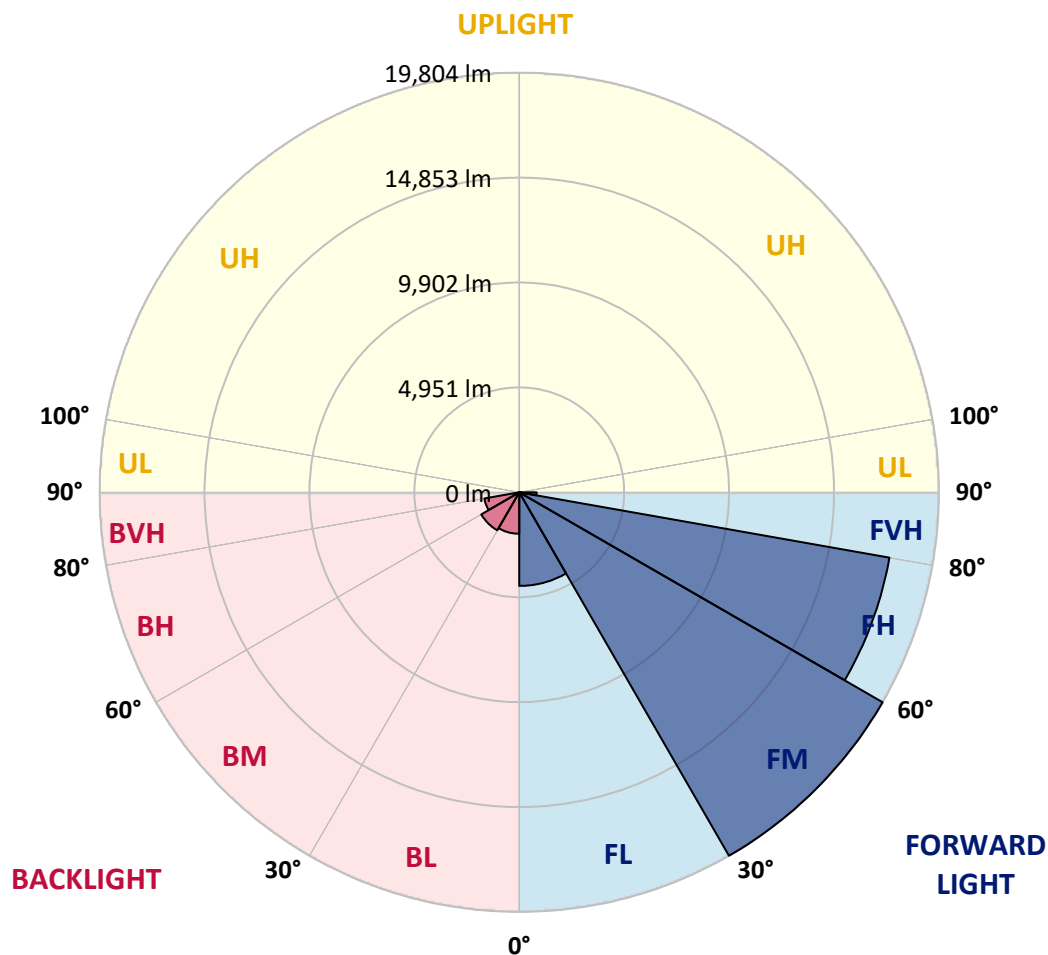
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4418.9	9.1			
FM	(30°-60°)	19803.6	40.8			
FH	(60°-80°)	17738.6	36.6			G5
FVH	(80°-90°)	816.6	1.7			G5
BL	(0°-30°)	1955.9	4.0	B3/2500		
BM	(30°-60°)	2071.4	4.3	B2/2500		
BH	(60°-80°)	1670.2	3.4	B3/2500		G3/2500
BVH	(80°-90°)	18.8	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°	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5
2.5°	12363.3	12332.5	12357.1	12410.5	12437.1	12437.1	12457.7	12433.0	12441.3	12381.7	12295.6
5°	11589.7	11542.5	11610.2	11760.0	11944.7	12102.7	12336.6	12459.7	12472.0	12474.1	12373.5
7.5°	10756.6	10713.5	10814.0	10990.5	11228.5	11522.0	11930.3	12287.4	12307.9	12500.8	12426.9
10°	10079.4	10048.6	10165.6	10354.4	10633.4	10961.8	11462.4	11959.0	12018.5	12445.4	12418.7
12.5°	9541.8	9517.2	9628.0	9845.5	10130.7	10493.9	11017.2	11593.8	11673.8	12320.2	12377.6
15°	9149.8	9145.7	9238.1	9447.4	9763.4	10102.0	10637.5	11255.2	11347.5	12184.8	12371.5
17.5°	8944.6	8950.8	9018.5	9197.0	9467.9	9804.4	10317.4	10970.0	11070.5	12063.7	12402.3
20°	8924.1	8930.3	8967.2	9067.8	9287.3	9584.9	10056.8	10729.9	10834.5	11973.4	12451.5
22.5°	9104.7	9100.6	9110.9	9100.6	9223.7	9449.4	9884.5	10545.2	10666.3	11913.9	12490.5
25°	9451.5	9445.3	9441.2	9365.3	9283.2	9404.3	9812.6	10440.6	10555.5	11870.8	12513.1
27.5°	9933.7	9929.6	9923.5	9798.3	9552.0	9476.1	9820.9	10401.6	10498.0	11835.9	12509.0
30°	10567.8	10596.5	10588.3	10413.9	10030.2	9695.7	9907.0	10381.0	10465.2	11768.2	12465.9
32.5°	11312.7	11370.1	11415.3	11228.5	10748.4	10130.7	10106.1	10403.6	10465.2	11716.9	12387.9
35°	12086.3	12160.1	12326.3	12260.7	11628.7	10785.3	10448.8	10539.1	10590.4	11745.6	12351.0
37.5°	12847.5	12935.8	13296.9	13487.8	12781.9	11651.2	10982.3	10873.5	10900.2	11920.0	12392.0
40°	13732.0	13865.3	14413.2	14721.0	14158.8	12810.6	11780.5	11448.1	11458.3	12303.8	12582.8
42.5°	14893.4	15030.9	15623.9	16106.1	15710.1	14275.7	12864.0	12326.3	12316.1	13022.0	13032.2
45°	16309.3	16452.9	17066.4	17602.0	17423.5	16011.7	14251.1	13608.8	13596.5	14154.7	13883.8
47.5°	17913.9	18055.5	18603.4	19155.4	19348.3	18039.1	16017.9	15359.2	15330.5	15728.5	15199.1
50°	19290.8	19383.2	19887.9	20630.8	21500.8	20530.2	18215.6	17581.5	17550.7	17819.5	17130.1
52.5°	19791.5	19844.9	20357.9	21398.2	23569.2	23903.7	21102.7	20286.0	20263.5	20380.4	19701.2
55°	18777.8	18874.3	19504.2	21047.3	24689.6	27716.3	24747.1	23634.9	23464.6	23212.2	22389.3
57.5°	16015.8	16169.7	16846.9	18898.9	24166.4	30740.9	30102.8	27422.9	27172.5	25629.4	24574.7
60°	12000.1	12188.9	12751.1	14965.2	21373.6	31818.2	35955.1	31643.8	31079.5	27554.2	26583.6
62.5°	8234.7	8329.1	8710.7	10153.3	15740.9	30053.5	40851.1	37297.1	36267.0	29647.2	28756.7
65°	6289.4	6322.2	6478.2	6974.7	9373.5	24412.6	42798.5	44756.1	43510.5	32150.7	31011.8
67.5°	5068.4	5041.8	5257.2	5967.2	6277.1	14893.4	40526.9	51812.9	51230.1	35497.5	33281.3
69°	4469.2	4432.3	4651.9	5476.8	5895.4	9845.5	36230.0	53415.5	53452.4	37264.2	33437.3
70°	4021.9	4046.5	4264.0	5185.4	5766.1	7727.8	32126.0	53007.2	53298.5	37925.0	32501.6
72.5°	2686.1	2751.7	3188.8	4305.1	5544.5	5848.2	19397.5	45486.6	46607.0	36437.3	27884.6
75°	1514.4	1563.6	2082.8	3246.3	5224.4	5569.1	10245.6	33511.1	34594.6	30470.1	21502.9
77.5°	742.8	769.5	1177.8	2095.1	4368.7	5306.5	5811.3	22762.8	24000.1	19887.9	12162.2
80°	314.0	328.3	588.9	1292.8	3123.1	5064.3	4315.3	14009.0	14162.9	7791.4	3240.1
82.5°	121.1	125.2	248.3	806.4	1984.3	3948.0	3609.5	6642.3	6482.3	1467.2	738.7
85°	14.4	16.4	90.3	484.3	1104.0	2031.5	2932.3	2862.5	2649.1	291.4	379.6
87.5°	0.0	0.0	6.2	147.7	328.3	952.1	1524.6	1188.1	1071.1	94.4	197.0
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°	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5	12254.5
2.5°	12223.7	12203.2	12092.4	11932.4	11780.5	11591.7	11411.1	11302.4	11216.2	11158.8	11226.5
5°	12256.6	12166.3	11829.8	11398.8	10976.1	10500.1	10056.8	9681.3	9533.6	9369.4	9443.3
7.5°	12246.3	12076.0	11470.7	10703.2	9927.6	9125.2	8366.0	7781.2	7477.5	7179.9	7255.9
10°	12195.0	11907.7	10990.5	9853.7	8692.3	7539.0	6461.7	5643.0	5185.4	4770.9	4830.4
12.5°	12082.2	11682.0	10424.1	8881.0	7327.7	5807.1	4545.2	3496.6	2934.4	2686.1	2716.8
15°	12014.4	11462.4	9825.0	7896.1	5870.8	4044.5	2778.4	2066.4	1809.9	1727.8	1738.0
17.5°	11981.6	11251.1	9205.3	6769.5	4381.0	2575.3	1795.5	1584.1	1528.7	1514.4	1518.5
20°	11948.8	11037.7	8567.1	5655.3	3018.5	1731.9	1475.4	1413.8	1393.3	1374.8	1378.9
22.5°	11893.4	10832.5	7881.7	4526.7	2035.6	1405.6	1329.7	1270.2	1227.1	1204.5	1208.6
25°	11825.7	10617.0	7182.0	3371.4	1485.6	1253.8	1181.9	1097.8	1046.5	1005.5	1007.5
27.5°	11716.9	10352.3	6459.7	2454.2	1247.6	1122.4	1026.0	933.7	847.5	800.3	800.3
30°	11565.0	10052.7	5657.4	1756.5	1118.3	993.2	876.2	761.3	669.0	625.9	621.8
32.5°	11396.8	9740.8	4846.8	1331.7	1015.7	872.1	738.7	617.7	535.6	500.7	498.6
35°	11253.1	9404.3	4038.3	1116.3	913.1	755.1	609.4	506.8	441.2	412.5	410.4
37.5°	11160.8	9067.8	3250.4	997.3	820.8	646.4	510.9	418.6	371.4	348.8	346.8
40°	11146.4	8817.4	2530.1	907.0	734.6	549.9	426.8	355.0	311.9	287.3	285.2
42.5°	11333.2	8673.8	1941.2	831.1	646.4	465.8	363.2	303.7	258.6	233.9	231.9
45°	11823.6	8718.9	1493.9	763.3	558.1	394.0	307.8	252.4	211.4	192.9	188.8
47.5°	12718.3	9030.8	1188.1	695.6	474.0	334.5	262.7	209.3	174.4	156.0	153.9
50°	14310.6	9763.4	993.2	621.8	396.0	285.2	217.5	170.3	141.6	125.2	123.1
52.5°	16424.2	11068.5	886.5	549.9	328.3	242.1	178.5	135.4	110.8	98.5	96.4
55°	18755.2	12648.5	816.7	472.0	268.8	201.1	141.6	106.7	86.2	75.9	71.8
57.5°	21030.9	14017.2	751.0	396.0	223.7	164.2	112.9	84.1	67.7	57.5	55.4
60°	23121.9	15275.1	675.1	318.1	182.6	129.3	88.2	65.7	53.4	43.1	43.1
62.5°	25360.6	16247.7	570.5	248.3	149.8	98.5	71.8	59.5	43.1	36.9	34.9
65°	27732.7	16970.0	447.3	192.9	117.0	73.9	59.5	61.6	34.9	26.7	24.6
67.5°	29485.1	16826.4	330.4	151.8	90.3	57.5	57.5	65.7	30.8	20.5	18.5
69°	29099.4	15658.8	277.0	131.3	78.0	49.2	53.4	65.7	28.7	18.5	16.4
70°	27981.0	14366.0	244.2	117.0	69.8	45.1	51.3	63.6	26.7	18.5	16.4
72.5°	23302.5	10820.2	190.8	88.2	55.4	36.9	43.1	55.4	26.7	18.5	14.4
75°	17528.1	6925.5	145.7	63.6	41.0	28.7	32.8	41.0	26.7	16.4	14.4
77.5°	9537.7	2497.3	104.7	43.1	28.7	22.6	22.6	30.8	24.6	12.3	8.2
80°	2452.1	627.9	65.7	28.7	22.6	16.4	14.4	20.5	14.4	2.1	0.0
82.5°	605.3	141.6	34.9	20.5	16.4	6.2	6.2	10.3	6.2	0.0	0.0
85°	332.4	69.8	22.6	14.4	8.2	0.0	0.0	2.1	0.0	0.0	0.0
87.5°	170.3	20.5	6.2	4.1	2.1	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)