

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: P323384

Luminaire Tested: **GAN-SA0D-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323384
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-SA0D-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 50549 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

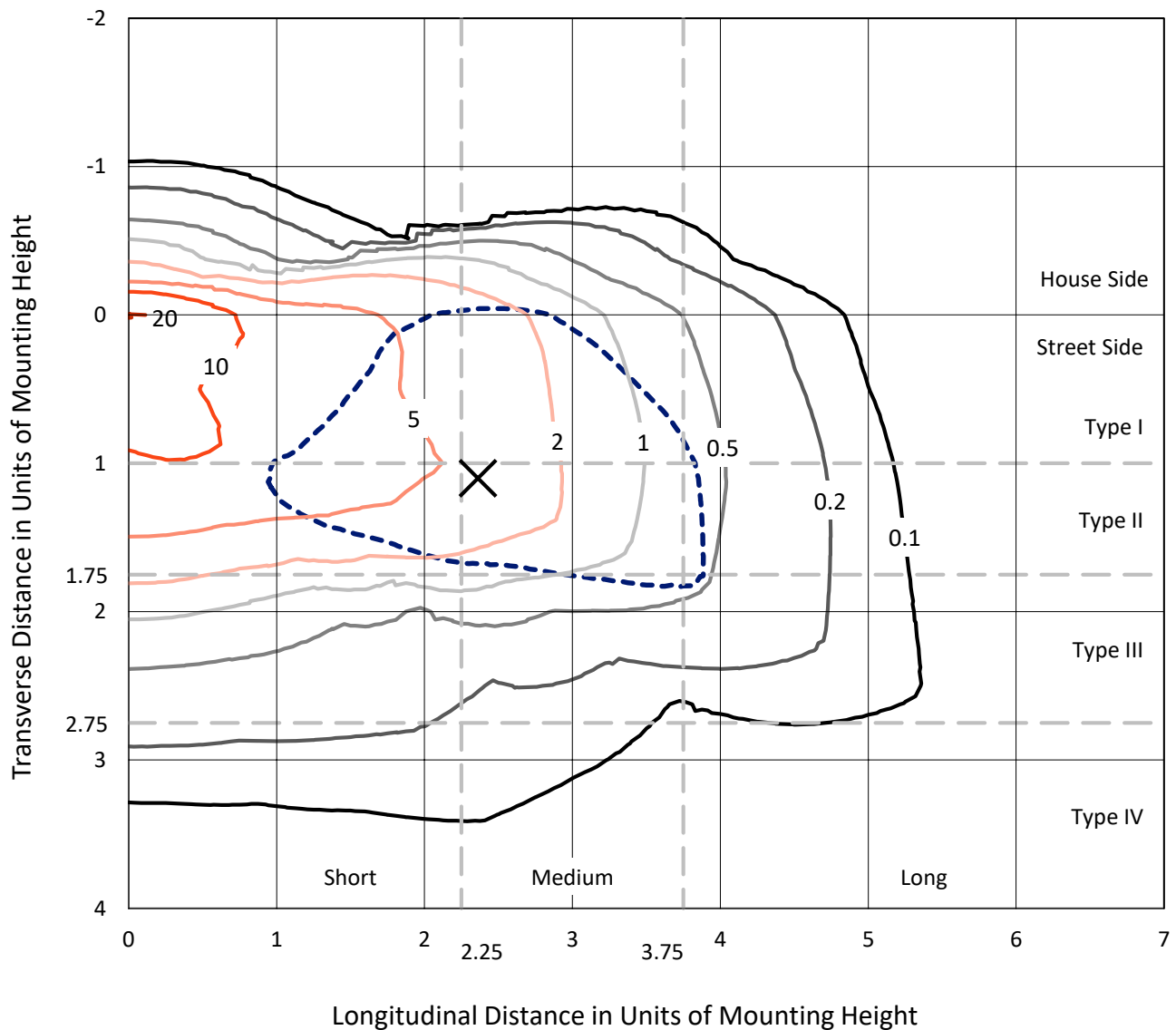
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323384
 CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

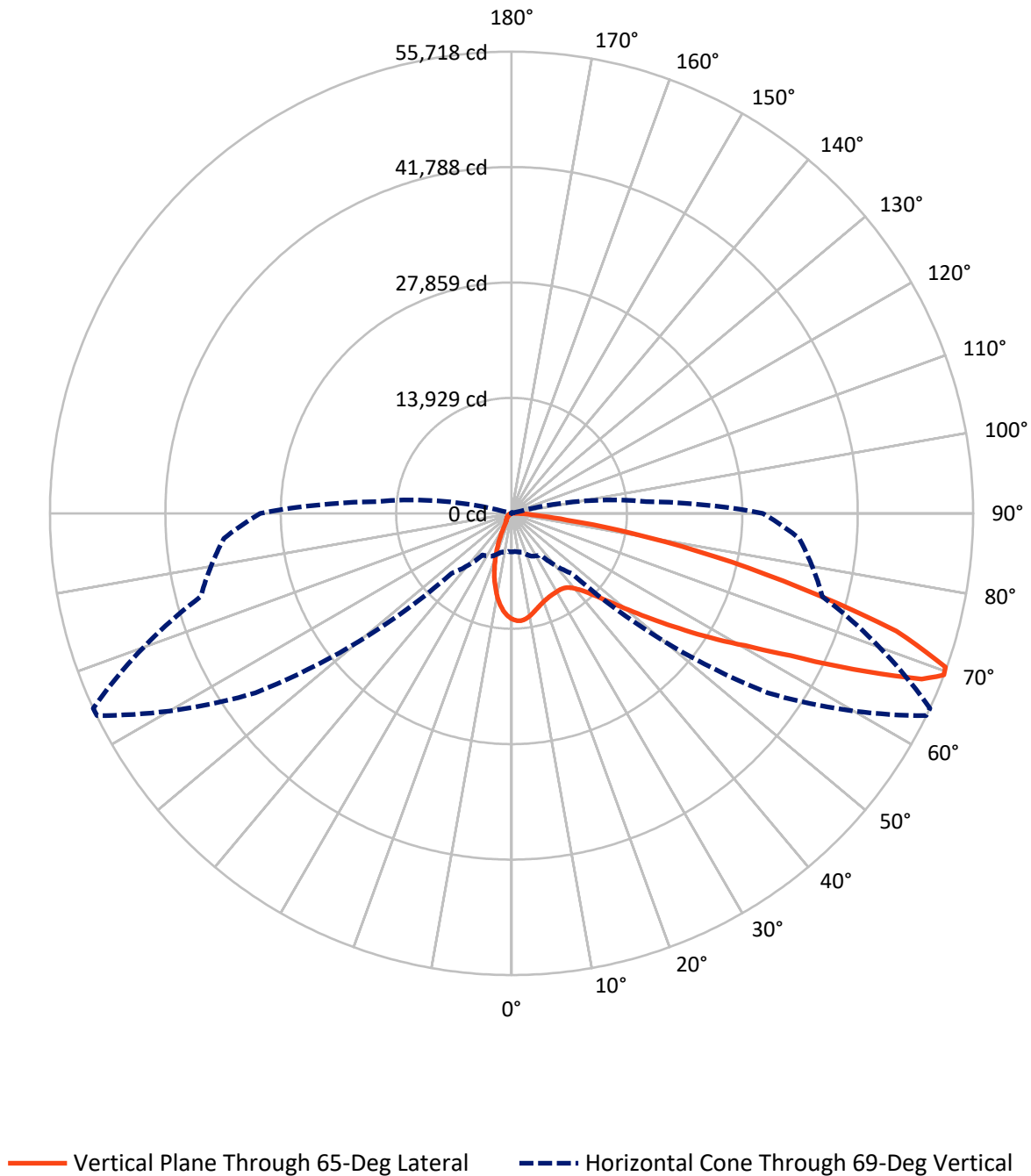
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P323384
CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323384

CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5958.5	0.0	5958.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	44590.5	0.0	44590.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	50549.0	0.0	50549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.2	2.1
10°-20°	2338.2	4.6
20°-30°	3238.6	6.4
30°-40°	4515.6	8.9
40°-50°	7018.7	13.9
50°-60°	11267.7	22.3
60°-70°	12745.7	25.2
70°-80°	7485.6	14.8
80°-90°	870.8	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°	50549.0	100.0
0°-180°	50549.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323384

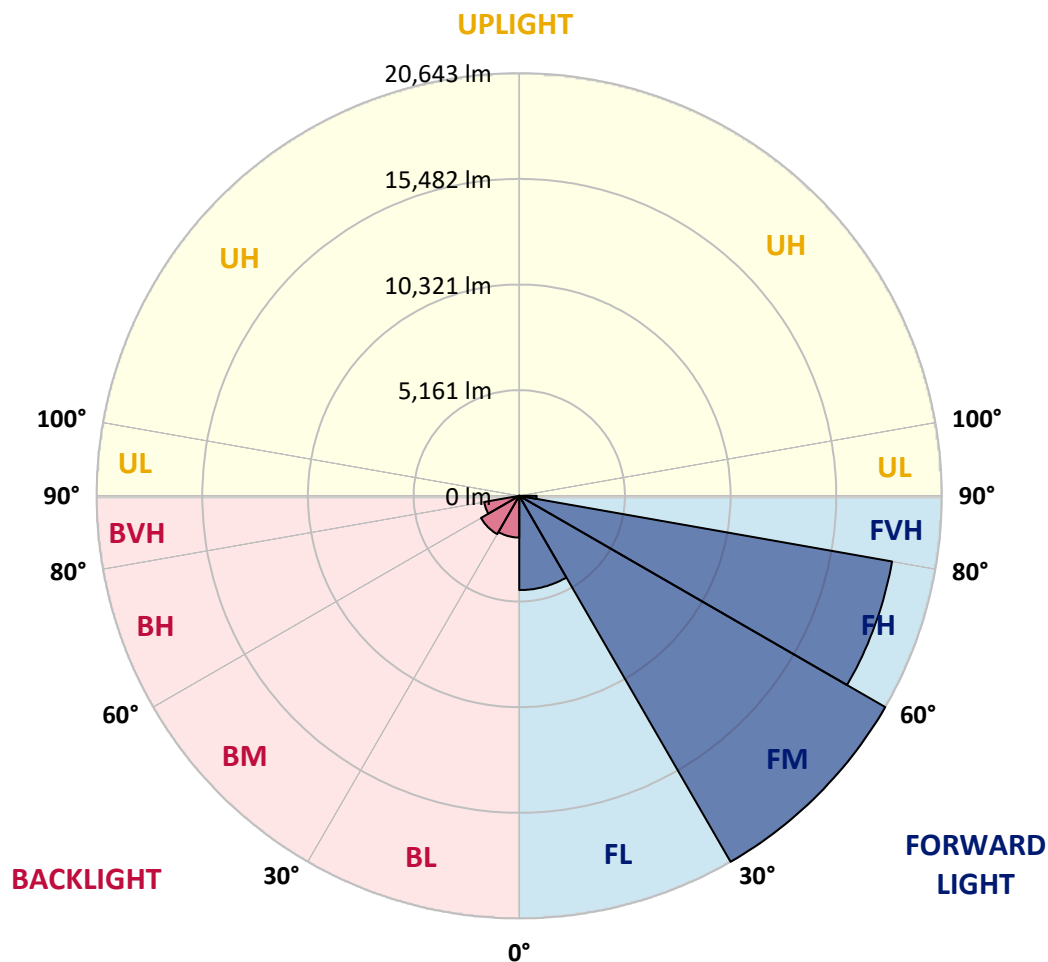
CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4606.2	9.1			
FM	(30°-60°)	20642.8	40.8			
FH	(60°-80°)	18490.3	36.6			G5
FVH	(80°-90°)	851.2	1.7			G5
BL	(0°-30°)	2038.8	4.0	B3/2500		
BM	(30°-60°)	2159.2	4.3	B2/2500		
BH	(60°-80°)	1741.0	3.4	B3/2500		G3/2500
BVH	(80°-90°)	19.6	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





REPORT NUMBER: P323384

CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8
2.5°	12887.2	12855.1	12880.8	12936.4	12964.2	12964.2	12985.6	12959.9	12968.5	12906.4	12816.6
5°	12080.8	12031.6	12102.2	12258.3	12450.8	12615.5	12859.4	12987.7	13000.5	13002.7	12897.9
7.5°	11212.4	11167.5	11272.3	11456.2	11704.3	12010.2	12435.9	12808.0	12829.4	13030.5	12953.5
10°	10506.5	10474.4	10596.4	10793.2	11084.0	11426.3	11948.2	12465.8	12527.8	12972.7	12944.9
12.5°	9946.1	9920.5	10036.0	10262.7	10560.0	10938.6	11484.0	12085.1	12168.5	12842.3	12902.2
15°	9537.6	9533.3	9629.6	9847.7	10177.1	10530.1	11088.3	11732.2	11828.4	12701.1	12895.7
17.5°	9323.7	9330.1	9400.7	9586.8	9869.1	10219.9	10754.7	11434.8	11539.6	12574.9	12927.8
20°	9302.3	9308.7	9347.2	9452.0	9680.9	9991.0	10483.0	11184.6	11293.7	12480.8	12979.2
22.5°	9490.5	9486.3	9496.9	9486.3	9614.6	9849.9	10303.3	10992.1	11118.3	12418.8	13019.8
25°	9852.0	9845.6	9841.3	9762.2	9676.6	9802.8	10228.5	10883.0	11002.8	12373.8	13043.3
27.5°	10354.7	10350.4	10344.0	10213.5	9956.8	9877.7	10237.0	10842.3	10942.9	12337.5	13039.1
30°	11015.6	11045.5	11037.0	10855.2	10455.2	10106.5	10326.9	10821.0	10908.7	12266.9	12994.1
32.5°	11792.0	11851.9	11899.0	11704.3	11203.8	10560.0	10534.3	10844.5	10908.7	12213.4	12912.9
35°	12598.4	12675.4	12848.7	12780.2	12121.4	11242.3	10891.5	10985.7	11039.1	12243.4	12874.4
37.5°	13392.0	13484.0	13860.4	14059.3	13323.5	12145.0	11447.7	11334.3	11362.1	12425.2	12917.1
40°	14313.9	14452.9	15024.0	15344.8	14758.8	13353.5	12279.7	11933.2	11943.9	12825.2	13116.1
42.5°	15524.5	15667.8	16286.0	16788.6	16375.8	14880.7	13409.1	12848.7	12838.0	13573.8	13584.5
45°	17000.4	17150.1	17789.7	18347.9	18161.8	16690.2	14855.0	14185.5	14172.7	14754.5	14472.1
47.5°	18673.1	18820.6	19391.7	19967.1	20168.2	18803.5	16696.7	16010.1	15980.1	16395.1	15843.2
50°	20108.3	20204.5	20730.7	21505.0	22411.9	21400.2	18987.5	18326.5	18294.5	18574.7	17856.0
52.5°	20630.2	20685.8	21220.5	22305.0	24568.0	24916.7	21997.0	21145.7	21122.2	21244.1	20536.1
55°	19573.5	19674.1	20330.7	21939.2	25735.9	28890.8	25795.8	24636.4	24458.9	24195.8	23338.1
57.5°	16694.5	16854.9	17560.8	19699.7	25190.4	32043.6	31378.4	28585.0	28324.0	26715.5	25616.1
60°	12508.6	12705.4	13291.4	15599.4	22279.3	33166.6	37478.7	32984.8	32396.6	28721.8	27710.1
62.5°	8583.6	8682.0	9079.9	10583.5	16407.9	31327.1	42582.3	38877.6	37803.8	30903.6	29975.3
65°	6555.9	6590.1	6752.7	7270.3	9770.7	25447.1	44612.1	46652.7	45354.3	33513.1	32326.0
67.5°	5283.2	5255.4	5480.0	6220.1	6543.1	15524.5	42244.3	54008.5	53401.1	37001.7	34691.7
69°	4658.6	4620.1	4849.0	5708.9	6145.2	10262.7	37765.3	55679.1	55717.6	38843.4	34854.2
70°	4192.3	4218.0	4444.7	5405.1	6010.5	8055.3	33487.4	55253.4	55557.1	39532.1	33878.9
72.5°	2799.9	2868.3	3323.9	4487.5	5779.4	6096.0	20219.5	47414.1	48582.0	37981.4	29066.2
75°	1578.5	1629.9	2171.0	3383.8	5445.8	5805.1	10679.8	34931.2	36060.6	31761.3	22414.1
77.5°	774.3	802.1	1227.8	2183.9	4553.8	5531.3	6057.5	23727.4	25017.2	20730.7	12677.6
80°	327.3	342.2	613.9	1347.5	3255.5	5278.9	4498.2	14602.6	14763.0	8121.6	3377.4
82.5°	126.2	130.5	258.8	840.6	2068.4	4115.3	3762.4	6923.8	6756.9	1529.4	770.0
85°	15.0	17.1	94.1	504.8	1150.8	2117.6	3056.6	2983.8	2761.4	303.7	395.7
87.5°	0.0	0.0	6.4	154.0	342.2	992.5	1589.2	1238.5	1116.5	98.4	205.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323384

CATALOG NUMBER: GAN-SA0D-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8	12773.8
2.5°	12741.7	12720.3	12604.8	12438.0	12279.7	12082.9	11894.7	11781.3	11691.5	11631.6	11702.2
5°	12776.0	12681.8	12331.1	11881.9	11441.3	10945.0	10483.0	10091.6	9937.6	9766.5	9843.5
7.5°	12765.3	12587.7	11956.7	11156.8	10348.2	9511.9	8720.5	8110.9	7794.3	7484.2	7563.3
10°	12711.8	12412.3	11456.2	10271.2	9060.6	7858.5	6735.6	5882.1	5405.1	4973.1	5035.1
12.5°	12594.1	12177.1	10865.9	9257.4	7638.2	6053.2	4737.8	3644.8	3058.7	2799.9	2832.0
15°	12523.6	11948.2	10241.3	8230.7	6119.5	4215.9	2896.1	2153.9	1886.6	1801.0	1811.7
17.5°	12489.3	11727.9	9595.3	7056.4	4566.7	2684.4	1871.6	1651.3	1593.5	1578.5	1582.8
20°	12455.1	11505.4	8930.1	5895.0	3146.4	1805.3	1537.9	1473.7	1452.3	1433.1	1437.4
22.5°	12397.4	11291.5	8215.7	4718.5	2121.8	1465.2	1386.0	1324.0	1279.1	1255.6	1259.8
25°	12326.8	11066.9	7486.3	3514.3	1548.6	1306.9	1232.0	1144.3	1090.9	1048.1	1050.2
27.5°	12213.4	10791.0	6733.4	2558.2	1300.5	1170.0	1069.5	973.2	883.4	834.2	834.2
30°	12055.1	10478.7	5897.1	1830.9	1165.7	1035.3	913.3	793.6	697.3	652.4	648.1
32.5°	11879.7	10153.6	5052.2	1388.2	1058.8	909.1	770.0	643.8	558.3	521.9	519.8
35°	11730.0	9802.8	4209.5	1163.6	951.8	787.1	635.3	528.3	459.9	429.9	427.8
37.5°	11633.8	9452.0	3388.1	1039.5	855.6	673.8	532.6	436.3	387.2	363.6	361.5
40°	11618.8	9191.1	2637.3	945.4	765.7	573.2	444.9	370.0	325.1	299.5	297.3
42.5°	11813.4	9041.3	2023.4	866.3	673.8	485.5	378.6	316.6	269.5	243.8	241.7
45°	12324.6	9088.4	1557.2	795.7	581.8	410.7	320.8	263.1	220.3	201.1	196.8
47.5°	13257.2	9413.5	1238.5	725.1	494.1	348.6	273.8	218.2	181.8	162.6	160.4
50°	14917.1	10177.1	1035.3	648.1	412.8	297.3	226.7	177.5	147.6	130.5	128.3
52.5°	17120.2	11537.5	924.0	573.2	342.2	252.4	186.1	141.2	115.5	102.7	100.5
55°	19550.0	13184.5	851.3	492.0	280.2	209.6	147.6	111.2	89.8	79.1	74.9
57.5°	21922.1	14611.2	782.9	412.8	233.1	171.1	117.6	87.7	70.6	59.9	57.8
60°	24101.7	15922.4	703.7	331.5	190.4	134.8	92.0	68.4	55.6	44.9	44.9
62.5°	26435.3	16936.2	594.6	258.8	156.1	102.7	74.9	62.0	44.9	38.5	36.4
65°	28907.9	17689.1	466.3	201.1	121.9	77.0	62.0	64.2	36.4	27.8	25.7
67.5°	30734.6	17539.4	344.4	158.3	94.1	59.9	59.9	68.4	32.1	21.4	19.3
69°	30332.5	16322.3	288.8	136.9	81.3	51.3	55.6	68.4	29.9	19.3	17.1
70°	29166.7	14974.8	254.5	121.9	72.7	47.1	53.5	66.3	27.8	19.3	17.1
72.5°	24289.9	11278.7	198.9	92.0	57.8	38.5	44.9	57.8	27.8	19.3	15.0
75°	18270.9	7219.0	151.9	66.3	42.8	29.9	34.2	42.8	27.8	17.1	15.0
77.5°	9941.8	2603.1	109.1	44.9	29.9	23.5	23.5	32.1	25.7	12.8	8.6
80°	2556.0	654.5	68.4	29.9	23.5	17.1	15.0	21.4	15.0	2.1	0.0
82.5°	631.0	147.6	36.4	21.4	17.1	6.4	6.4	10.7	6.4	0.0	0.0
85°	346.5	72.7	23.5	15.0	8.6	0.0	0.0	2.1	0.0	0.0	0.0
87.5°	177.5	21.4	6.4	4.3	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)