

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: P323543

Luminaire Tested: **GAN-SA9D-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59261 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

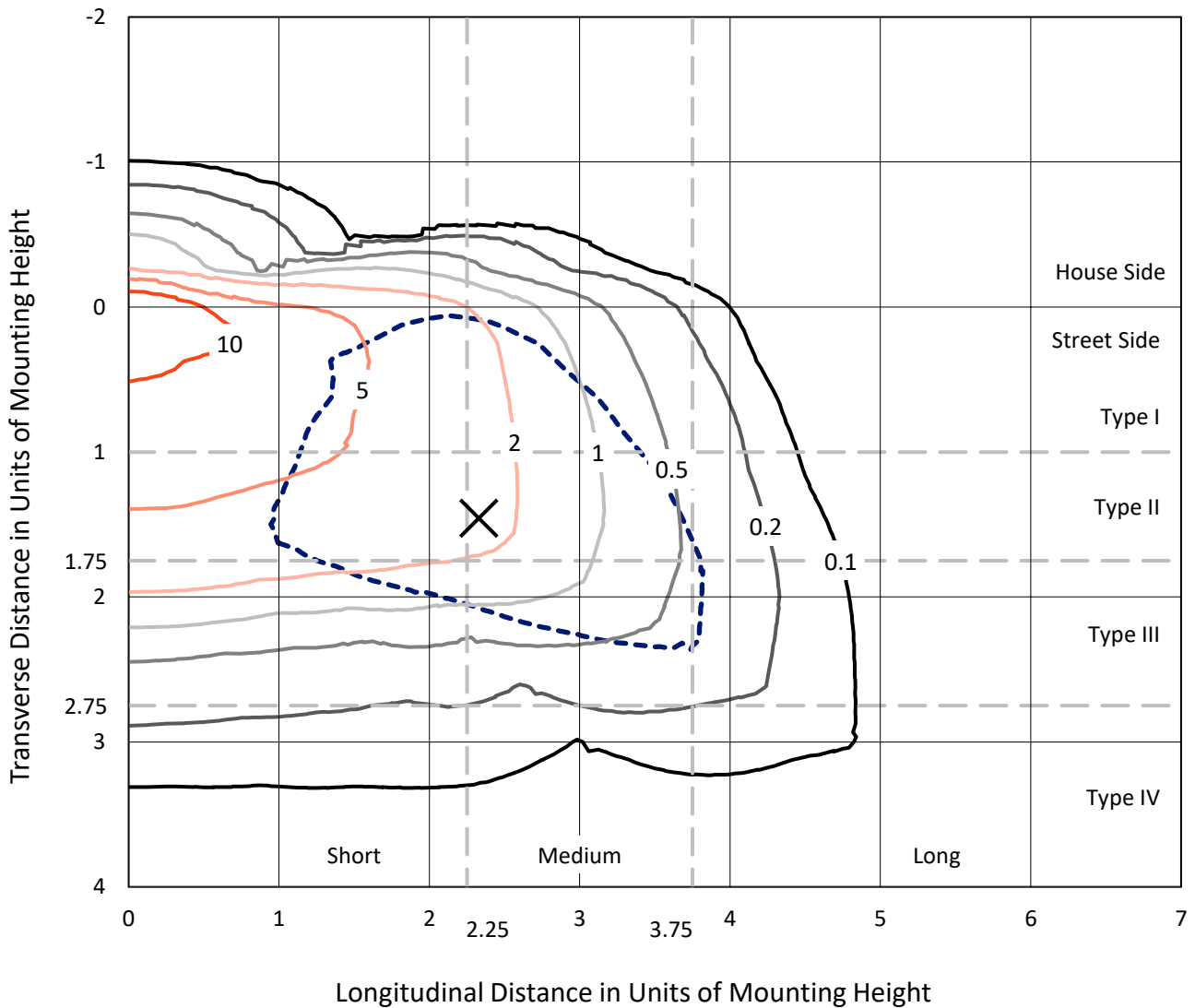
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

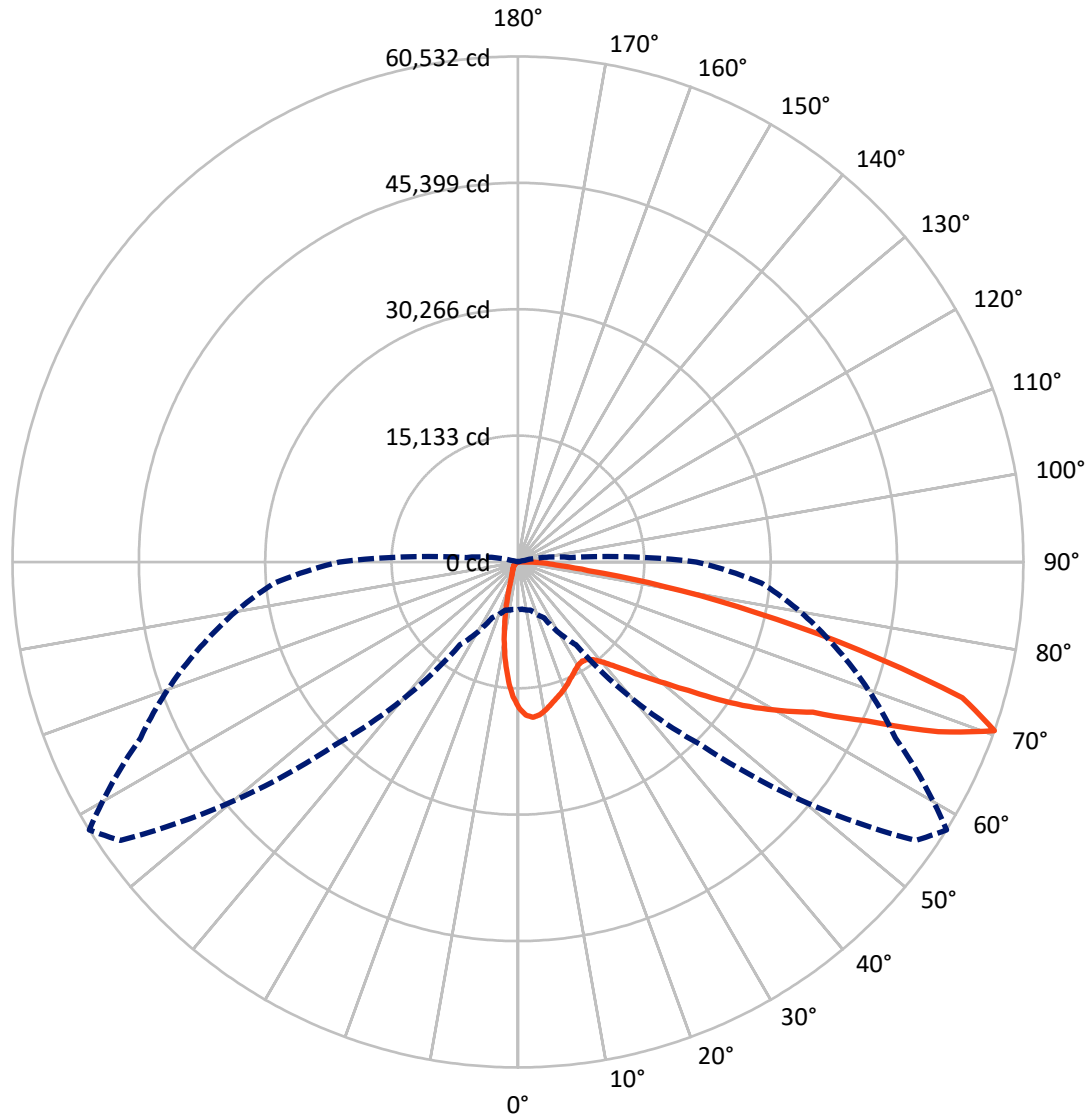
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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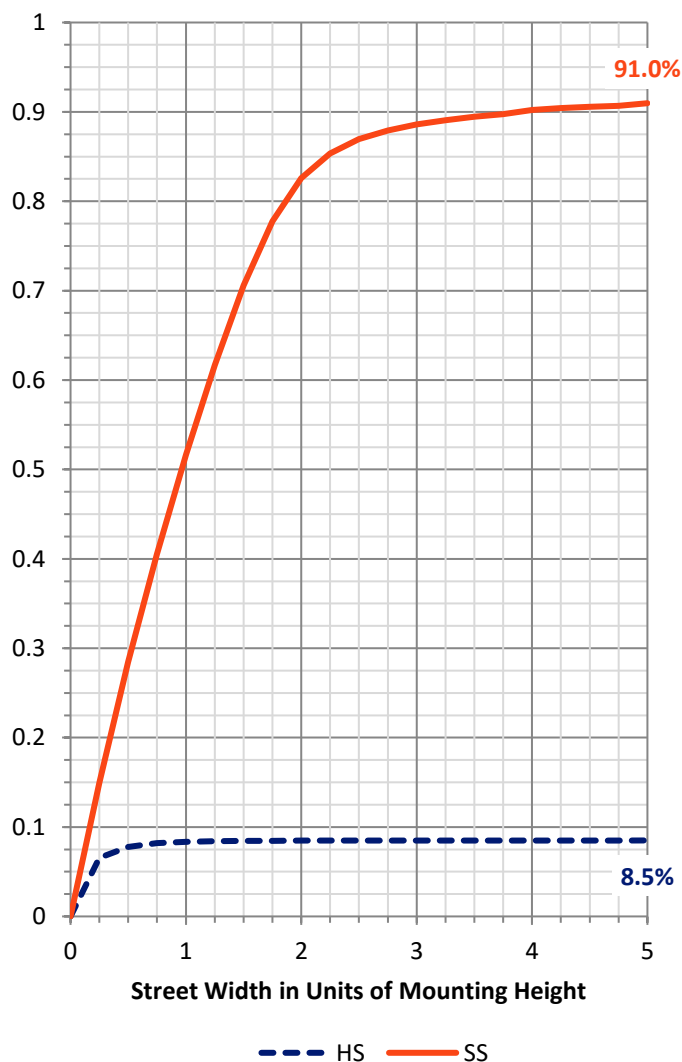
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5071.4	0.0	5071.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	54189.6	0.0	54189.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	59261.0	0.0	59261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.5	2.4
10°-20°	3004.4	5.1
20°-30°	3949.7	6.7
30°-40°	5231.0	8.8
40°-50°	7818.7	13.2
50°-60°	12525.2	21.1
60°-70°	15787.9	26.6
70°-80°	8515.9	14.4
80°-90°	996.8	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°	59261.0	100.0
0°-180°	59261.0	100.0

Coefficient of Utilization

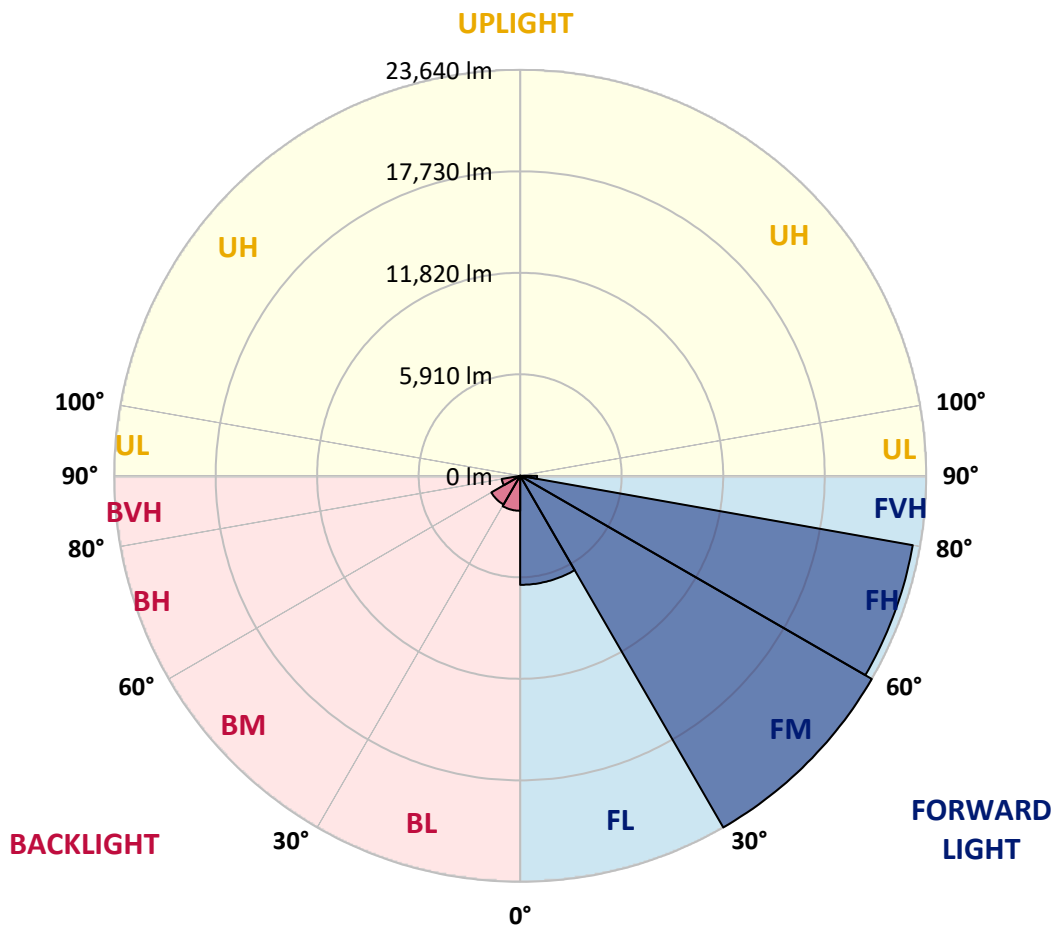


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6348.1	10.7			
FM (30°-60°)	23640.1	39.9			
FH (60°-80°)	23213.2	39.2			G5
FVH (80°-90°)	988.2	1.7			G5
BL (0°-30°)	2037.5	3.4	B3/2500		
BM (30°-60°)	1934.7	3.3	B2/2500		
BH (60°-80°)	1090.6	1.8	B3/2500		G3/2500
BVH (80°-90°)	8.6	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°	55°	58°	65°	75°	85°
0°	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4
2.5°	18956.8	18910.0	18892.7	18863.2	18749.8	18638.9	18419.6	18358.0	18220.0	17892.3	17544.8
5°	18971.6	18969.1	19020.9	19008.6	18969.1	18917.4	18759.7	18678.4	18444.3	17976.1	17340.3
7.5°	18057.4	18104.2	18220.0	18313.7	18422.1	18562.5	18582.3	18503.4	18311.2	17806.0	16963.3
10°	16830.2	16904.2	17066.8	17251.6	17535.0	17815.9	18067.2	18057.4	17990.9	17493.1	16509.9
12.5°	15600.6	15686.9	15874.1	16147.7	16549.3	17007.7	17456.1	17517.7	17628.6	17212.2	16091.0
15°	14523.8	14597.7	14782.5	15117.6	15615.4	16231.4	16889.4	17002.7	17288.6	16992.9	15741.1
17.5°	13609.6	13656.4	13791.9	14164.0	14740.6	15487.3	16342.3	16564.1	16990.4	16820.4	15438.0
20°	12971.4	12978.8	13067.5	13328.7	13905.3	14740.6	15775.6	16093.5	16675.0	16672.5	15125.0
22.5°	12655.9	12631.3	12648.6	12798.9	13222.7	14028.5	15208.8	15585.8	16391.6	16546.9	14807.2
25°	12596.8	12577.1	12527.8	12547.5	12803.8	13405.1	14637.1	15073.3	16142.7	16470.5	14531.2
27.5°	12781.6	12801.3	12717.5	12628.8	12648.6	13000.9	14129.5	14634.7	15940.7	16470.5	14336.5
30°	13153.7	13163.6	13102.0	12986.1	12830.9	12887.6	13777.1	14282.3	15839.6	16583.8	14213.3
32.5°	13565.2	13619.4	13612.0	13518.4	13296.6	13067.5	13693.4	14154.2	15832.3	16835.2	14201.0
35°	14075.3	14136.9	14240.4	14220.7	13989.1	13612.0	13979.2	14341.4	15977.6	17249.1	14334.0
37.5°	14617.4	14711.1	14932.8	15038.8	14888.5	14462.2	14619.9	14878.6	16367.0	17919.4	14671.6
40°	15142.3	15248.2	15652.4	16068.8	15955.5	15516.8	15590.8	15797.8	17059.4	18882.9	15312.3
42.5°	15657.3	15815.0	16408.9	17093.9	17229.4	16879.5	16918.9	17084.0	18087.0	20208.6	16359.6
45°	16273.3	16450.8	17330.5	18175.7	18537.9	18385.1	18552.7	18661.1	19429.9	21960.6	17771.5
47.5°	17177.7	17382.2	18461.5	19425.0	20060.8	20159.3	20496.9	20568.4	21127.7	24001.0	19612.3
50°	18942.0	18998.7	19974.5	20849.3	21766.0	22357.4	22741.8	22796.0	23182.9	26231.0	21911.3
52.5°	21162.2	21199.2	21751.2	22337.6	23380.0	24587.4	25486.8	25563.2	25644.6	28404.4	24180.8
55°	23367.7	23362.7	23727.4	24072.4	25265.1	27019.6	28971.2	29018.0	28434.0	30466.9	25915.6
57.5°	24745.1	24878.2	25432.6	25876.2	27542.0	29791.7	32499.9	32672.3	31363.9	31994.7	27630.7
60°	24306.5	24370.6	25600.2	27241.3	30378.2	33731.9	36070.4	36114.8	33566.8	33520.0	29799.1
62.5°	20708.8	20743.3	22675.2	26058.5	31814.8	38842.6	40377.8	39655.8	36100.0	35636.7	32393.9
65°	14193.6	14417.8	16031.8	20213.5	29175.7	42048.5	47045.8	45850.7	39961.3	38687.4	34739.8
67.5°	8358.4	8311.6	9110.0	12190.2	21428.4	39919.5	55480.6	54292.9	45227.3	40730.2	34052.3
70°	5709.5	5677.4	5983.0	7380.2	12096.6	30967.1	58134.6	60532.2	49877.1	39355.2	29306.3
72.5°	4075.7	4093.0	4543.9	5734.1	7594.6	18042.6	49993.0	55667.9	48420.8	34308.6	22276.0
75°	2767.3	2814.1	3459.7	4704.1	6658.2	9179.0	35476.6	42317.1	39429.1	24934.9	12803.8
77.5°	1488.4	1540.1	2301.5	3789.9	6020.0	6377.3	22820.6	29124.0	24767.3	11209.5	3711.0
80°	621.0	650.5	1076.8	2754.9	5201.8	5601.0	13427.2	17660.7	10554.0	2210.4	828.0
82.5°	268.6	283.4	448.5	1643.6	3888.5	4728.7	7109.1	8496.4	3198.5	485.4	416.4
85°	51.7	54.2	184.8	869.8	2481.4	2668.7	4608.0	4516.8	1436.6	209.5	303.1
87.5°	0.0	0.0	44.4	273.5	729.4	1453.9	2811.6	2777.1	487.9	101.0	113.4
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°	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4	17505.4
2.5°	17367.4	17197.4	16840.1	16399.0	16061.4	15689.3	15393.6	15019.1	14856.4	14863.8	14775.1
5°	16978.1	16628.2	15837.2	14839.2	14070.4	13276.9	12594.3	11914.2	11512.6	11382.0	11258.8
7.5°	16421.2	15866.8	14605.1	13067.5	11766.4	10494.9	9388.5	8415.1	7799.1	7498.5	7387.6
10°	15792.8	15014.1	13188.2	11162.7	9304.7	7584.7	6150.6	4903.7	4405.9	4068.3	3982.1
12.5°	15240.9	14186.2	11803.3	9208.6	7003.2	4928.3	3560.7	2784.5	2446.9	2313.8	2291.7
15°	14720.9	13412.4	10470.2	7439.3	4849.5	3033.4	2264.6	2000.9	1922.0	1899.9	1899.9
17.5°	14230.5	12675.7	9166.7	5697.1	3208.3	2126.6	1875.2	1816.1	1791.4	1789.0	1791.4
20°	13718.0	11938.9	7885.3	4174.3	2239.9	1801.3	1732.3	1700.3	1692.9	1692.9	1692.9
22.5°	13227.6	11202.1	6638.5	2981.6	1796.4	1643.6	1609.1	1586.9	1579.5	1577.1	1572.1
25°	12757.0	10502.3	5421.2	2106.9	1577.1	1505.6	1476.0	1446.5	1424.3	1412.0	1404.6
27.5°	12370.1	9878.8	4287.6	1690.4	1424.3	1362.7	1325.7	1281.4	1227.2	1202.5	1192.7
30°	12062.1	9309.6	3304.4	1426.8	1281.4	1219.8	1163.1	1086.7	1007.8	966.0	963.5
32.5°	11820.6	8750.2	2508.5	1261.7	1153.2	1076.8	995.5	899.4	808.2	761.4	759.0
35°	11702.3	8257.4	1917.1	1140.9	1039.9	943.8	842.7	736.8	648.1	603.7	598.8
37.5°	11781.2	7841.0	1495.7	1039.9	943.8	832.9	714.6	603.7	524.9	485.4	483.0
40°	12069.5	7574.8	1214.8	953.6	862.5	726.9	598.8	495.3	428.8	396.7	394.3
42.5°	12683.1	7476.3	1037.4	882.2	783.6	628.4	497.8	409.1	347.4	325.3	320.3
45°	13708.1	7621.7	916.7	813.2	702.3	534.7	411.5	335.1	280.9	263.7	261.2
47.5°	15073.3	8003.6	830.4	746.6	628.4	450.9	342.5	271.1	229.2	211.9	209.5
50°	16832.7	8609.8	759.0	680.1	559.4	381.9	283.4	214.4	177.4	165.1	165.1
52.5°	18747.4	9331.8	694.9	618.5	490.4	317.9	229.2	165.1	140.5	125.7	125.7
55°	20329.4	9962.6	625.9	571.7	406.6	263.7	175.0	125.7	103.5	96.1	96.1
57.5°	21908.9	10635.3	547.0	490.4	325.3	214.4	133.1	93.6	76.4	71.5	71.5
60°	23956.6	11458.4	470.7	399.2	256.3	162.6	98.6	66.5	56.7	54.2	54.2
62.5°	26208.8	11941.3	401.7	320.3	199.6	120.7	71.5	44.4	41.9	41.9	39.4
65°	27586.3	11258.8	337.6	256.3	155.2	91.2	46.8	32.0	37.0	34.5	29.6
67.5°	25829.4	8814.3	276.0	199.6	120.7	69.0	29.6	22.2	39.4	32.0	24.6
70°	21386.5	6170.3	214.4	140.5	96.1	59.1	19.7	14.8	41.9	32.0	19.7
72.5°	16004.7	4129.9	170.0	93.6	71.5	51.7	17.2	7.4	37.0	27.1	17.2
75°	8745.3	1663.3	135.5	59.1	44.4	37.0	12.3	4.9	24.6	19.7	12.3
77.5°	2301.5	438.6	98.6	39.4	24.6	14.8	7.4	2.5	12.3	9.9	4.9
80°	586.5	170.0	64.1	27.1	17.2	7.4	0.0	0.0	2.5	0.0	0.0
82.5°	312.9	71.5	39.4	19.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	236.6	46.8	22.2	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	91.2	14.8	7.4	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)