

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: P323853

Luminaire Tested: **GAN-SA9C-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51320 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

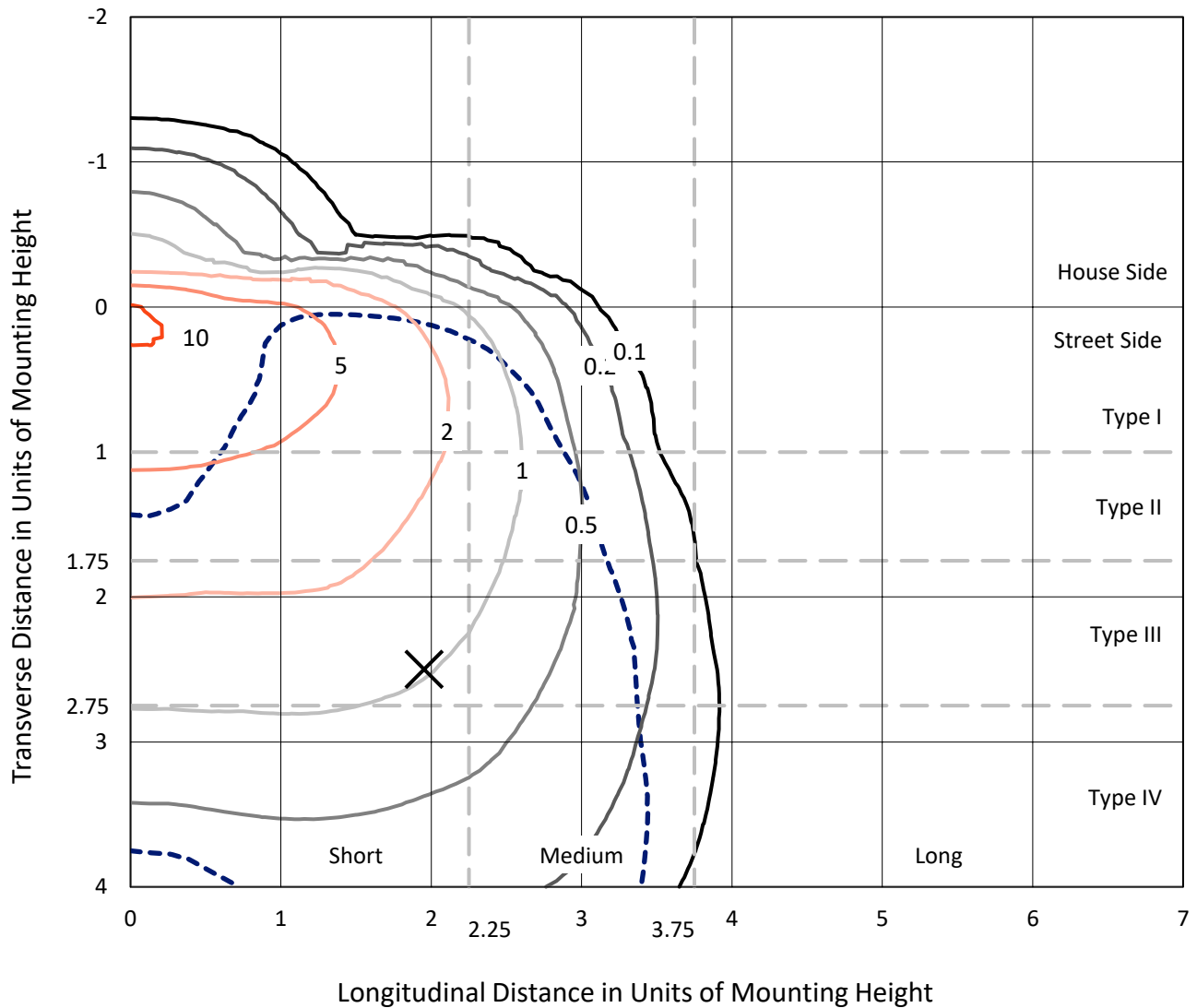
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

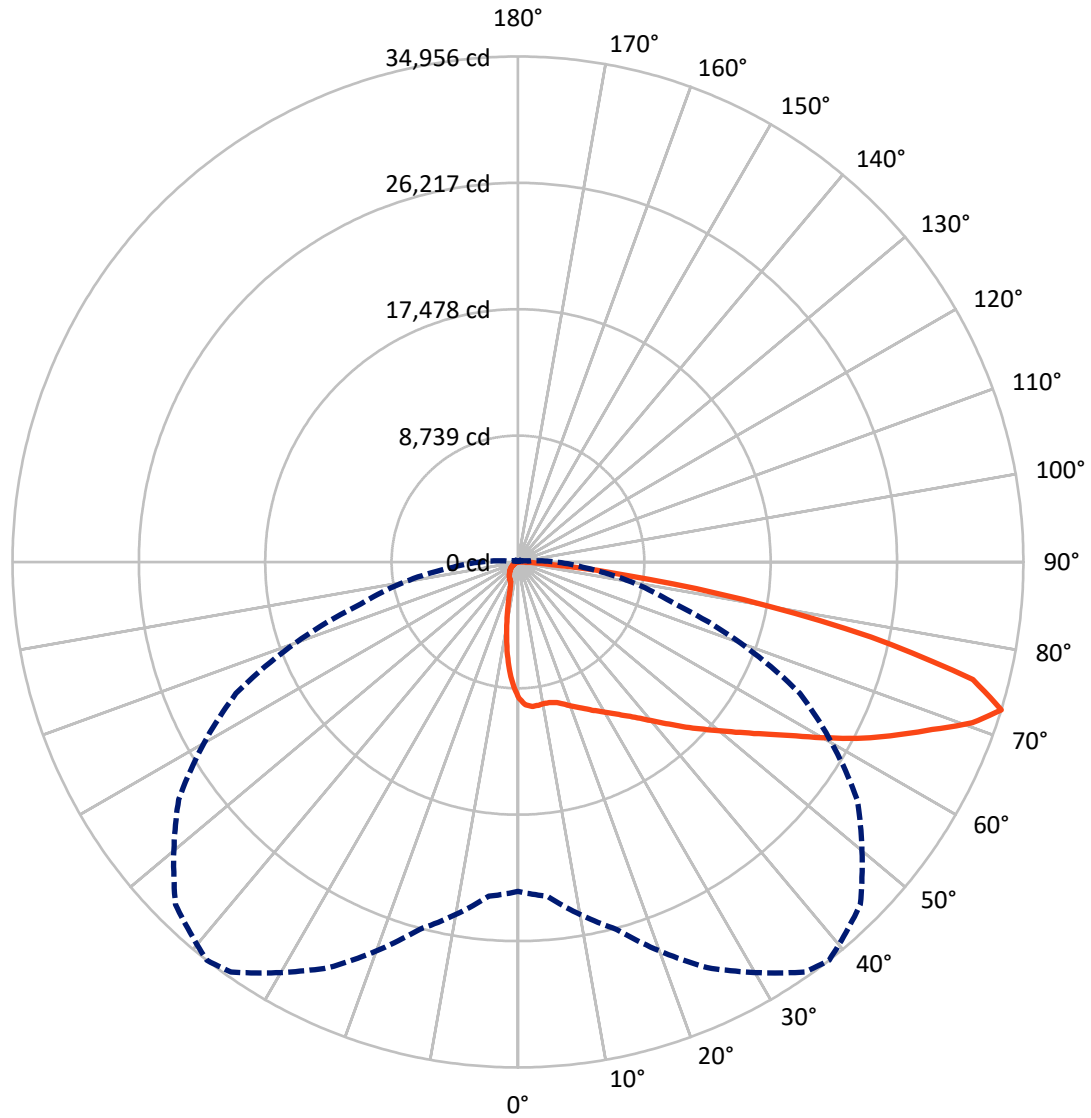
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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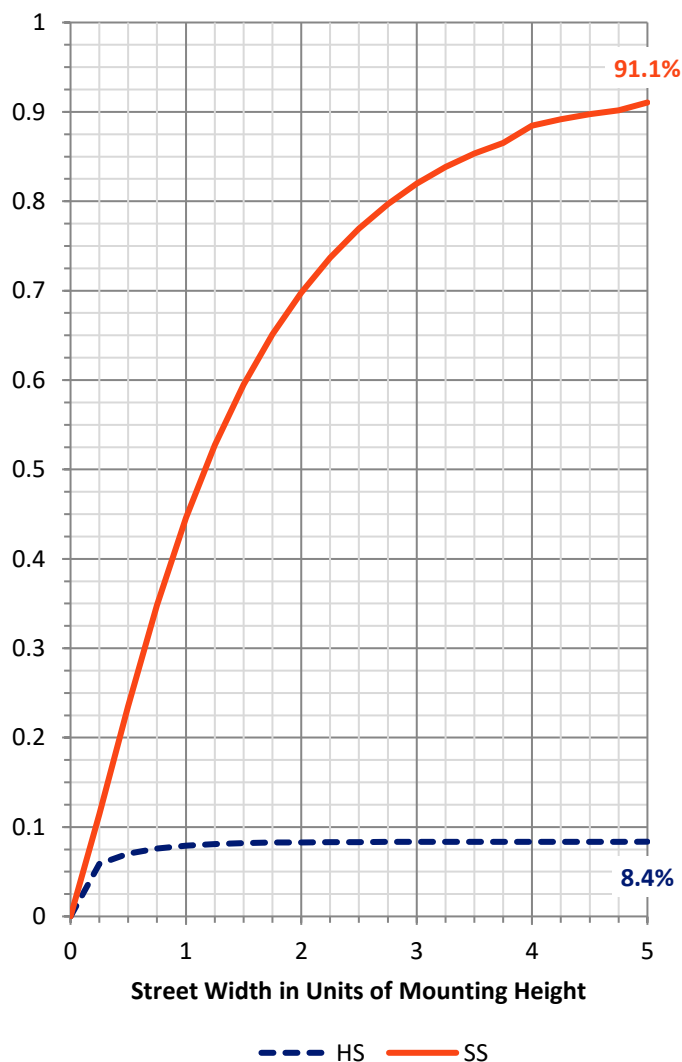
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4318.8	0.0	4318.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	47001.2	0.0	47001.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	51320.0	0.0	51320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.3	1.6
10°-20°	1966.6	3.8
20°-30°	3127.8	6.1
30°-40°	4702.4	9.2
40°-50°	7173.8	14.0
50°-60°	10139.0	19.8
60°-70°	12717.7	24.8
70°-80°	9509.3	18.5
80°-90°	1179.1	2.3
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°	51320.0	100.0
0°-180°	51320.0	100.0

Coefficient of Utilization



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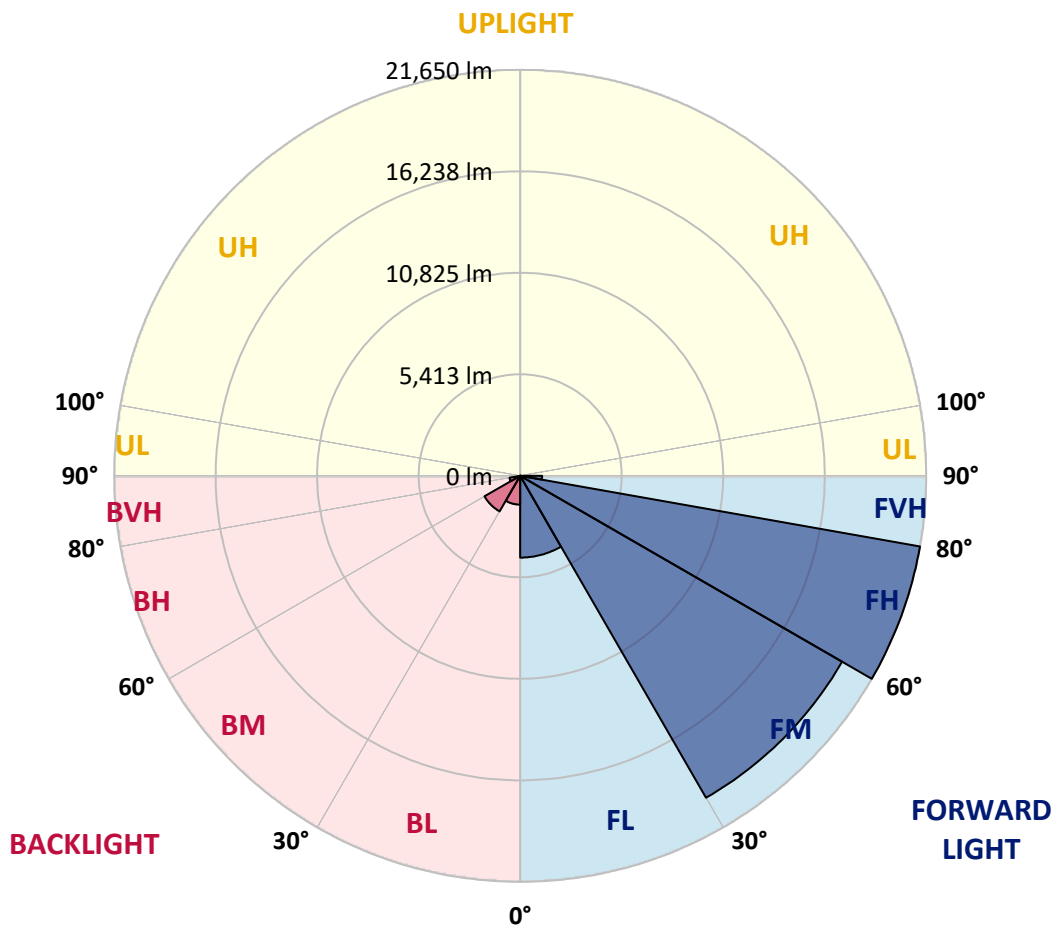
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.0	8.5			
FM (30°-60°)	19822.1	38.6			
FH (60°-80°)	21650.1	42.2			G5
FVH (80°-90°)	1168.1	2.3			G5
BL (0°-30°)	1537.8	3.0	B3/2500		
BM (30°-60°)	2193.1	4.3	B2/2500		
BH (60°-80°)	576.9	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6
2.5°	10017.3	10019.4	9996.0	9957.6	9908.6	9883.0	9840.4	9772.2	9699.7	9569.7	9429.1
5°	10221.9	10221.9	10192.1	10140.9	10062.1	10038.6	9957.6	9848.9	9699.7	9488.7	9252.2
7.5°	10200.6	10204.9	10164.4	10111.1	10032.2	10010.9	9912.9	9791.4	9606.0	9350.2	9047.5
10°	10089.8	10100.4	10068.5	10042.9	9970.4	9947.0	9855.3	9733.8	9548.4	9275.6	8928.2
12.5°	9976.8	9987.5	9998.1	10021.6	9976.8	9968.3	9895.8	9793.5	9616.6	9333.1	8941.0
15°	9904.3	9925.7	10002.4	10094.0	10104.7	10096.2	10049.3	9953.4	9774.3	9480.2	9032.6
17.5°	9904.3	9938.4	10098.3	10273.1	10334.9	10341.3	10300.8	10166.5	9953.4	9637.9	9117.9
20°	9987.5	10034.4	10283.7	10531.0	10633.3	10633.3	10554.4	10366.8	10117.5	9780.7	9175.4
22.5°	10200.6	10262.4	10575.7	10861.3	10970.0	10946.6	10840.0	10567.2	10288.0	9942.7	9247.9
25°	10620.5	10667.4	10993.5	11281.2	11347.3	11294.0	11159.7	10810.2	10505.4	10162.2	9380.0
27.5°	11161.8	11168.2	11505.0	11748.0	11707.5	11671.2	11502.8	11114.9	10818.7	10475.5	9608.1
30°	11756.5	11756.5	12052.7	12238.2	12114.5	12084.7	11916.3	11483.7	11219.4	10901.8	9932.1
32.5°	12331.9	12357.5	12598.4	12715.6	12577.0	12547.2	12383.1	11950.4	11752.2	11551.9	10437.2
35°	12888.2	12907.4	13135.5	13199.4	13067.3	13075.8	12958.6	12592.0	12517.4	12491.8	11198.1
37.5°	13427.4	13431.7	13664.0	13704.5	13638.5	13710.9	13721.6	13397.6	13536.1	13742.9	12270.1
40°	13919.8	13924.1	14154.2	14258.7	14371.6	14465.4	14548.5	14375.9	14834.1	15313.7	13546.8
42.5°	14314.1	14358.8	14650.8	14849.1	15147.4	15326.5	15552.4	15543.9	16379.4	17099.8	15089.9
45°	14661.5	14738.2	15145.3	15492.7	16004.2	16289.8	16643.6	16920.7	18118.5	19088.3	16652.2
47.5°	15119.7	15192.2	15656.8	16225.9	16907.9	17283.0	17869.2	18468.1	20030.3	21040.6	18178.2
50°	15765.5	15733.6	16191.8	17008.1	17884.1	18376.4	19211.9	20109.2	21927.2	22741.4	19075.5
52.5°	16454.0	16441.2	16780.0	17858.5	19035.0	19610.5	20714.5	21805.8	23741.0	23913.6	19486.9
55°	17306.5	17214.8	17500.4	18828.3	20401.2	21019.3	22319.4	23485.2	25186.1	24574.4	19693.6
57.5°	18199.5	18048.2	18321.0	19908.9	21942.2	22673.2	24096.9	25122.1	26147.3	25026.2	19691.5
60°	19122.4	18943.4	19267.3	21260.1	23856.1	24702.2	26023.7	26228.3	27044.6	25254.3	19546.5
62.5°	19893.9	19787.4	20269.1	22705.2	25993.8	26825.1	27479.4	27234.3	27801.2	25431.2	19207.6
65°	20710.2	20716.6	21494.6	24391.1	28265.8	28826.4	28881.8	28538.7	28434.2	25394.9	18061.0
67.5°	21814.3	21916.6	23214.6	26680.1	30476.0	30908.7	30904.4	29951.7	28896.7	23954.1	15518.3
70°	22982.3	23223.1	25196.7	29299.5	32888.7	33327.8	33101.9	30851.2	27208.7	19369.6	10982.8
72.5°	22786.2	23203.9	26298.6	30951.3	34621.5	34956.1	33487.6	28641.0	21505.2	11257.7	4676.2
75°	17579.3	18063.1	24114.0	29314.5	32803.5	32503.0	28773.1	22287.4	11752.2	3141.6	1052.9
77.5°	9286.3	9544.1	15929.6	22332.2	25578.2	24949.5	20269.1	12363.9	3582.8	777.9	473.2
80°	4863.7	4923.4	6941.8	12670.8	15786.8	15791.1	12012.2	5430.7	1477.0	398.6	317.6
82.5°	2604.5	2655.7	3668.0	5854.8	8271.7	7498.1	4599.4	2988.1	858.9	225.9	304.8
85°	626.6	637.3	2080.2	2674.8	3252.4	2323.2	1366.2	2508.6	232.3	132.1	247.2
87.5°	240.8	245.1	771.5	1157.3	829.1	537.1	639.4	935.7	29.8	51.2	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°	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6	9437.6
2.5°	9343.8	9288.4	9152.0	8979.3	8825.9	8715.1	8548.8	8440.1	8367.6	8365.5	8337.8
5°	9107.2	8994.3	8700.1	8350.6	8033.0	7747.4	7410.7	7144.3	6946.0	6914.1	6845.9
7.5°	8853.6	8668.2	8216.3	7670.7	7137.9	6596.5	5967.8	5577.7	5243.1	5083.2	5066.2
10°	8698.0	8438.0	7796.4	7007.8	6172.4	5292.1	4469.4	3900.4	3489.0	3371.8	3284.4
12.5°	8666.0	8322.9	7472.5	6385.5	5191.9	4028.2	3118.2	2512.9	2184.6	2080.2	2052.5
15°	8698.0	8269.6	7199.7	5769.5	4198.7	2858.1	2093.0	1741.3	1617.7	1587.8	1585.7
17.5°	8717.2	8205.7	6890.6	5085.4	3235.4	2041.8	1602.8	1500.5	1481.3	1479.2	1483.4
20°	8715.1	8107.6	6521.9	4322.4	2406.3	1604.9	1449.3	1428.0	1423.7	1425.9	1423.7
22.5°	8700.1	7992.5	6116.9	3535.9	1818.0	1434.4	1383.2	1370.5	1368.3	1368.3	1368.3
25°	8727.8	7900.9	5671.5	2783.5	1498.3	1355.5	1323.6	1312.9	1310.8	1310.8	1306.5
27.5°	8828.0	7849.7	5183.4	2142.0	1353.4	1285.2	1259.6	1257.5	1251.1	1249.0	1253.2
30°	8990.0	7849.7	4648.5	1666.7	1266.0	1212.7	1193.6	1189.3	1187.2	1185.0	1187.2
32.5°	9275.6	7909.4	4064.5	1385.4	1182.9	1131.7	1119.0	1125.3	1119.0	1119.0	1119.0
35°	9791.4	8088.4	3452.8	1208.5	1095.5	1052.9	1040.1	1048.6	1044.4	1044.4	1042.2
37.5°	10543.7	8420.9	2836.8	1101.9	1018.8	974.0	957.0	969.8	965.5	965.5	963.4
40°	11460.2	8904.7	2250.7	1020.9	944.2	897.3	882.4	888.8	878.1	878.1	882.4
42.5°	12592.0	9518.6	1739.2	942.1	869.6	824.8	816.3	809.9	790.7	780.1	782.2
45°	13849.5	10158.0	1355.5	865.3	799.3	763.0	750.2	733.2	701.2	679.9	682.0
47.5°	14972.7	10650.3	1101.9	790.7	735.3	707.6	688.4	656.5	609.6	584.0	586.1
50°	15563.1	10724.9	937.8	716.1	675.6	647.9	620.2	571.2	515.8	488.1	485.9
52.5°	15714.4	10375.4	816.3	647.9	616.0	584.0	547.8	481.7	419.9	390.0	385.8
55°	15769.8	9842.5	707.6	584.0	552.0	515.8	468.9	394.3	336.8	306.9	304.8
57.5°	15586.5	9047.5	622.4	526.4	488.1	443.3	385.8	315.4	260.0	236.6	236.6
60°	15179.4	7971.2	556.3	464.6	422.0	370.9	311.2	245.1	194.0	174.8	174.8
62.5°	14367.4	6577.3	494.5	400.7	360.2	306.9	251.5	185.4	136.4	125.7	127.9
65°	12834.9	4989.5	432.7	343.1	306.9	253.6	196.1	132.1	91.6	91.6	95.9
67.5°	10467.0	3465.6	368.7	292.0	264.3	206.7	149.2	91.6	63.9	72.5	81.0
70°	6929.0	1943.8	315.4	240.8	225.9	164.1	110.8	61.8	51.2	68.2	83.1
72.5°	2615.2	756.6	264.3	194.0	196.1	125.7	78.9	46.9	46.9	74.6	98.0
75°	728.9	370.9	189.7	142.8	153.5	91.6	57.5	40.5	44.8	85.3	115.1
77.5°	428.4	272.8	123.6	83.1	104.4	63.9	38.4	32.0	38.4	72.5	110.8
80°	345.3	144.9	72.5	42.6	57.5	36.2	25.6	19.2	10.7	27.7	57.5
82.5°	345.3	87.4	34.1	29.8	29.8	19.2	12.8	8.5	2.1	0.0	14.9
85°	232.3	36.2	21.3	19.2	14.9	6.4	4.3	2.1	0.0	0.0	0.0
87.5°	38.4	14.9	8.5	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)