

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: P323933

Luminaire Tested: **GAN-SA9C-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323933
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-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 51319 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

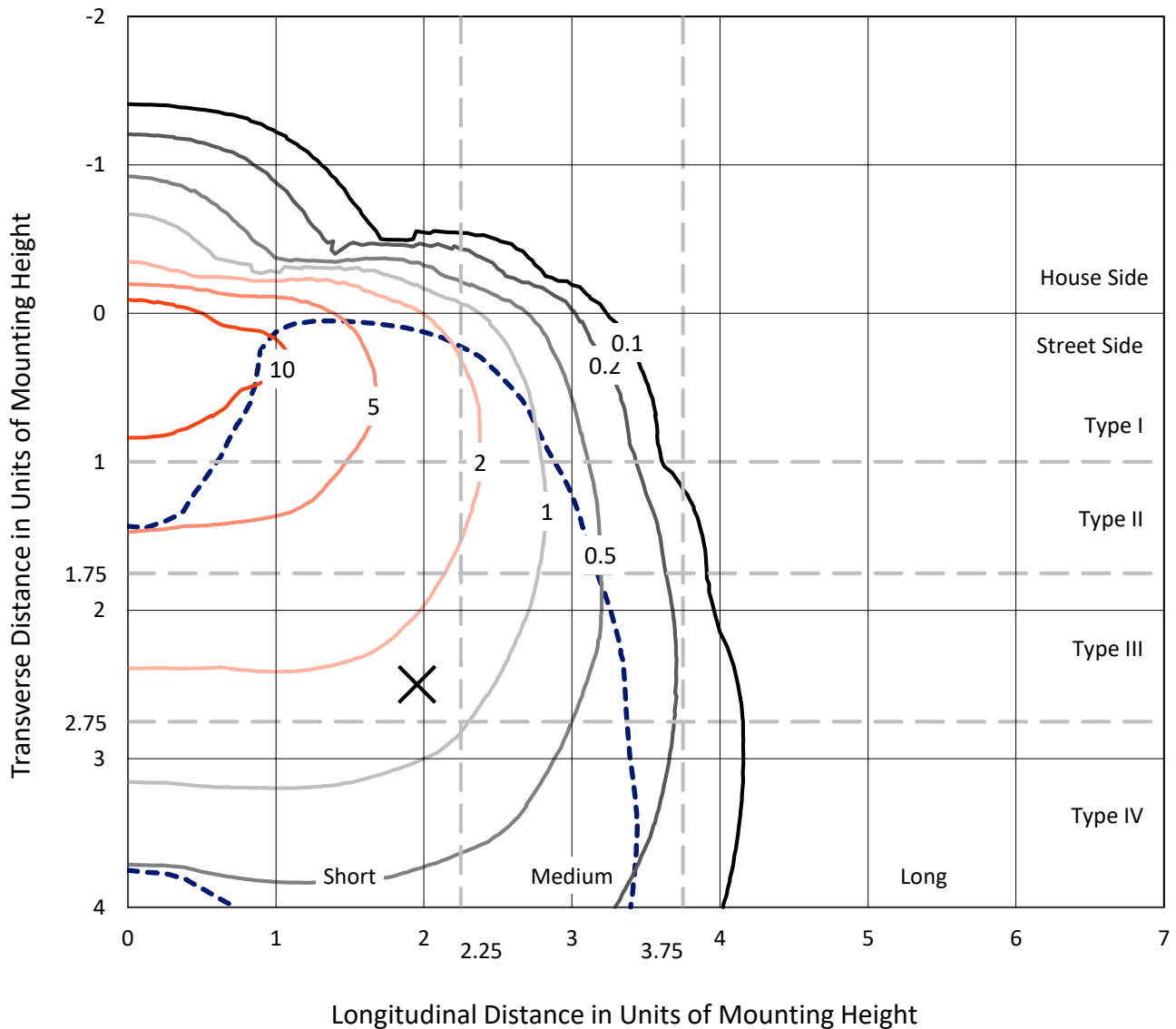
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

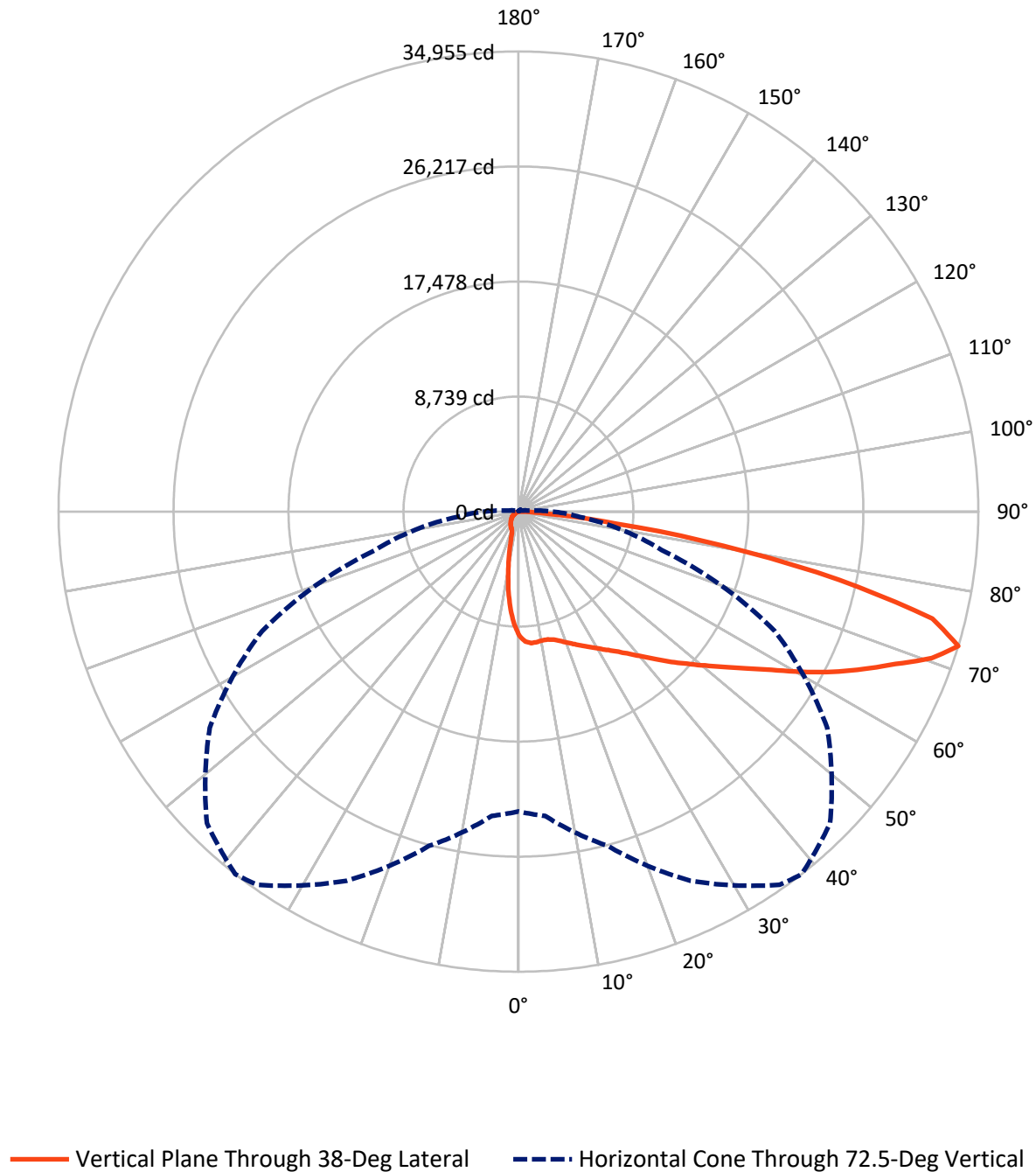
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4318.7	0.0	4318.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	47000.3	0.0	47000.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	51319.0	0.0	51319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.2	1.6
10°-20°	1966.6	3.8
20°-30°	3127.8	6.1
30°-40°	4702.3	9.2
40°-50°	7173.7	14.0
50°-60°	10138.8	19.8
60°-70°	12717.5	24.8
70°-80°	9509.1	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°	51319.0	100.0
0°-180°	51319.0	100.0

Coefficient of Utilization



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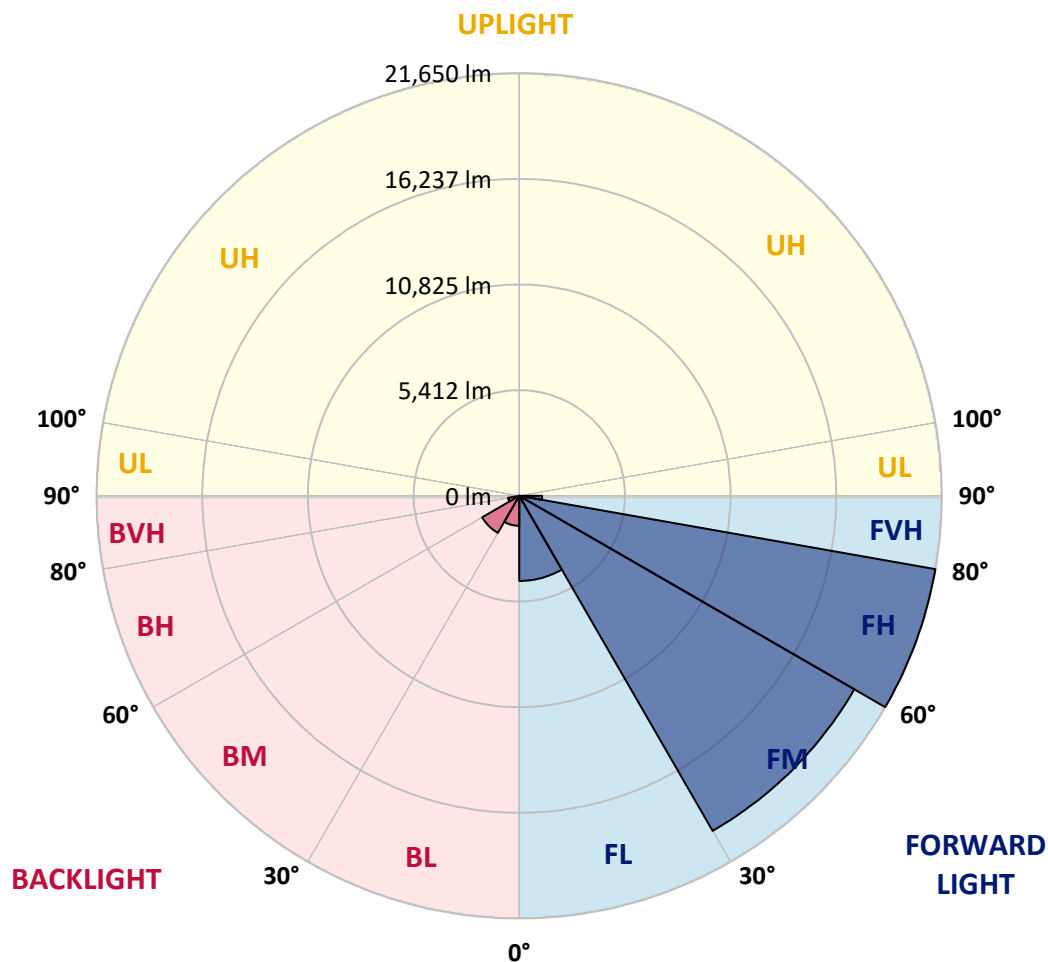
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4360.9	8.5			
FM	(30°-60°)	19821.7	38.6			
FH	(60°-80°)	21649.7	42.2			G5
FVH	(80°-90°)	1168.1	2.3			G5
BL	(0°-30°)	1537.7	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°	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4
2.5°	10017.1	10019.2	9995.8	9957.4	9908.4	9882.8	9840.2	9772.0	9699.5	9569.5	9428.9
5°	10221.7	10221.7	10191.9	10140.7	10061.9	10038.4	9957.4	9848.7	9699.5	9488.5	9252.0
7.5°	10200.4	10204.7	10164.2	10110.9	10032.0	10010.7	9912.7	9791.2	9605.8	9350.0	9047.4
10°	10089.6	10100.2	10068.3	10042.7	9970.2	9946.8	9855.1	9733.6	9548.2	9275.4	8928.0
12.5°	9976.6	9987.3	9997.9	10021.4	9976.6	9968.1	9895.6	9793.3	9616.4	9333.0	8940.8
15°	9904.1	9925.5	10002.2	10093.8	10104.5	10096.0	10049.1	9953.2	9774.1	9480.0	9032.4
17.5°	9904.1	9938.3	10098.1	10272.9	10334.7	10341.1	10300.6	10166.3	9953.2	9637.7	9117.7
20°	9987.3	10034.2	10283.5	10530.8	10633.1	10633.1	10554.2	10366.6	10117.3	9780.5	9175.2
22.5°	10200.4	10262.2	10575.5	10861.1	10969.8	10946.4	10839.8	10567.0	10287.8	9942.5	9247.7
25°	10620.3	10667.2	10993.2	11281.0	11347.0	11293.8	11159.5	10810.0	10505.2	10162.0	9379.8
27.5°	11161.6	11168.0	11504.8	11747.7	11707.2	11671.0	11502.6	11114.7	10818.5	10475.3	9607.9
30°	11756.2	11756.2	12052.5	12237.9	12114.3	12084.5	11916.1	11483.4	11219.2	10901.6	9931.9
32.5°	12331.7	12357.3	12598.1	12715.3	12576.8	12547.0	12382.9	11950.2	11752.0	11551.6	10437.0
35°	12888.0	12907.2	13135.2	13199.1	13067.0	13075.5	12958.3	12591.7	12517.1	12491.5	11197.8
37.5°	13427.2	13431.5	13663.8	13704.3	13638.2	13710.7	13721.3	13397.3	13535.9	13742.6	12269.9
40°	13919.5	13923.8	14154.0	14258.4	14371.4	14465.1	14548.3	14375.6	14833.8	15313.4	13546.5
42.5°	14313.8	14358.6	14650.6	14848.8	15147.1	15326.2	15552.1	15543.6	16379.0	17099.4	15089.6
45°	14661.2	14737.9	15145.0	15492.4	16003.9	16289.5	16643.3	16920.4	18118.2	19087.9	16651.8
47.5°	15119.4	15191.9	15656.5	16225.6	16907.6	17282.7	17868.8	18467.7	20030.0	21040.2	18177.9
50°	15765.2	15733.3	16191.5	17007.8	17883.7	18376.1	19211.5	20108.8	21926.8	22741.0	19075.1
52.5°	16453.6	16440.8	16779.7	17858.2	19034.6	19610.1	20714.1	21805.3	23740.5	23913.2	19486.5
55°	17306.2	17214.5	17500.1	18827.9	20400.8	21018.9	22319.0	23484.8	25185.6	24573.9	19693.2
57.5°	18199.2	18047.8	18320.7	19908.5	21941.7	22672.8	24096.5	25121.6	26146.8	25025.7	19691.1
60°	19122.0	18943.0	19266.9	21259.7	23855.6	24701.8	26023.2	26227.8	27044.1	25253.8	19546.1
62.5°	19893.6	19787.0	20268.7	22704.7	25993.3	26824.5	27478.8	27233.7	27800.7	25430.7	19207.3
65°	20709.8	20716.2	21494.2	24390.6	28265.3	28825.8	28881.2	28538.1	28433.7	25394.4	18060.6
67.5°	21813.9	21916.2	23214.1	26679.6	30475.5	30908.1	30903.8	29951.2	28896.2	23953.7	15518.0
70°	22981.8	23222.6	25196.2	29299.0	32888.1	33327.1	33101.2	30850.6	27208.2	19369.3	10982.6
72.5°	22785.7	23203.5	26298.1	30950.7	34620.8	34955.4	33487.0	28640.4	21504.8	11257.5	4676.1
75°	17579.0	18062.8	24113.5	29313.9	32802.8	32502.3	28772.5	22287.0	11752.0	3141.5	1052.9
77.5°	9286.1	9544.0	15929.3	22331.8	25577.7	24949.0	20268.7	12363.7	3582.7	777.9	473.1
80°	4863.6	4923.3	6941.6	12670.6	15786.5	15790.8	12012.0	5430.6	1477.0	398.6	317.6
82.5°	2604.4	2655.6	3668.0	5854.7	8271.6	7497.9	4599.3	2988.1	858.9	225.9	304.8
85°	626.6	637.3	2080.1	2674.8	3252.4	2323.1	1366.2	2508.5	232.3	132.1	247.2
87.5°	240.8	245.1	771.5	1157.3	829.1	537.1	639.4	935.6	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°	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4	9437.4
2.5°	9343.6	9288.2	9151.8	8979.2	8825.7	8714.9	8548.6	8439.9	8367.5	8365.4	8337.6
5°	9107.0	8994.1	8700.0	8350.4	8032.9	7747.3	7410.5	7144.1	6945.9	6913.9	6845.7
7.5°	8853.4	8668.0	8216.2	7670.5	7137.7	6596.4	5967.6	5577.6	5243.0	5083.1	5066.1
10°	8697.8	8437.8	7796.3	7007.7	6172.2	5292.0	4469.3	3900.3	3488.9	3371.7	3284.3
12.5°	8665.9	8322.7	7472.3	6385.4	5191.8	4028.2	3118.1	2512.8	2184.6	2080.1	2052.4
15°	8697.8	8269.4	7199.5	5769.4	4198.7	2858.1	2092.9	1741.3	1617.7	1587.8	1585.7
17.5°	8717.0	8205.5	6890.5	5085.3	3235.3	2041.8	1602.7	1500.4	1481.3	1479.1	1483.4
20°	8714.9	8107.5	6521.8	4322.3	2406.2	1604.9	1449.3	1428.0	1423.7	1425.8	1423.7
22.5°	8700.0	7992.4	6116.8	3535.8	1818.0	1434.4	1383.2	1370.4	1368.3	1368.3	1368.3
25°	8727.7	7900.7	5671.4	2783.5	1498.3	1355.5	1323.5	1312.9	1310.7	1310.7	1306.5
27.5°	8827.8	7849.6	5183.3	2142.0	1353.4	1285.2	1259.6	1257.5	1251.1	1248.9	1253.2
30°	8989.8	7849.6	4648.4	1666.7	1266.0	1212.7	1193.5	1189.3	1187.1	1185.0	1187.1
32.5°	9275.4	7909.3	4064.4	1385.3	1182.9	1131.7	1118.9	1125.3	1118.9	1118.9	1118.9
35°	9791.2	8088.3	3452.7	1208.4	1095.5	1052.9	1040.1	1048.6	1044.3	1044.3	1042.2
37.5°	10543.5	8420.8	2836.8	1101.9	1018.8	974.0	957.0	969.7	965.5	965.5	963.3
40°	11460.0	8904.6	2250.7	1020.9	944.2	897.3	882.4	888.8	878.1	878.1	882.4
42.5°	12591.7	9518.4	1739.1	942.0	869.6	824.8	816.3	809.9	790.7	780.1	782.2
45°	13849.2	10157.8	1355.5	865.3	799.2	763.0	750.2	733.2	701.2	679.9	682.0
47.5°	14972.4	10650.1	1101.9	790.7	735.3	707.6	688.4	656.4	609.6	584.0	586.1
50°	15562.8	10724.7	937.8	716.1	675.6	647.9	620.2	571.2	515.8	488.1	485.9
52.5°	15714.1	10375.2	816.3	647.9	615.9	584.0	547.7	481.7	419.9	390.0	385.8
55°	15769.5	9842.3	707.6	584.0	552.0	515.8	468.9	394.3	336.7	306.9	304.8
57.5°	15586.2	9047.4	622.3	526.4	488.1	443.3	385.8	315.4	260.0	236.6	236.6
60°	15179.1	7971.1	556.3	464.6	422.0	370.8	311.2	245.1	193.9	174.8	174.8
62.5°	14367.1	6577.2	494.5	400.7	360.2	306.9	251.5	185.4	136.4	125.7	127.9
65°	12834.7	4989.4	432.7	343.1	306.9	253.6	196.1	132.1	91.6	91.6	95.9
67.5°	10466.8	3465.5	368.7	292.0	264.3	206.7	149.2	91.6	63.9	72.5	81.0
70°	6928.9	1943.7	315.4	240.8	225.9	164.1	110.8	61.8	51.2	68.2	83.1
72.5°	2615.1	756.6	264.3	193.9	196.1	125.7	78.9	46.9	46.9	74.6	98.0
75°	728.9	370.8	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)