

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: P323142

Luminaire Tested: **GAN-SA8D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323142
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-SA8D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 43074 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

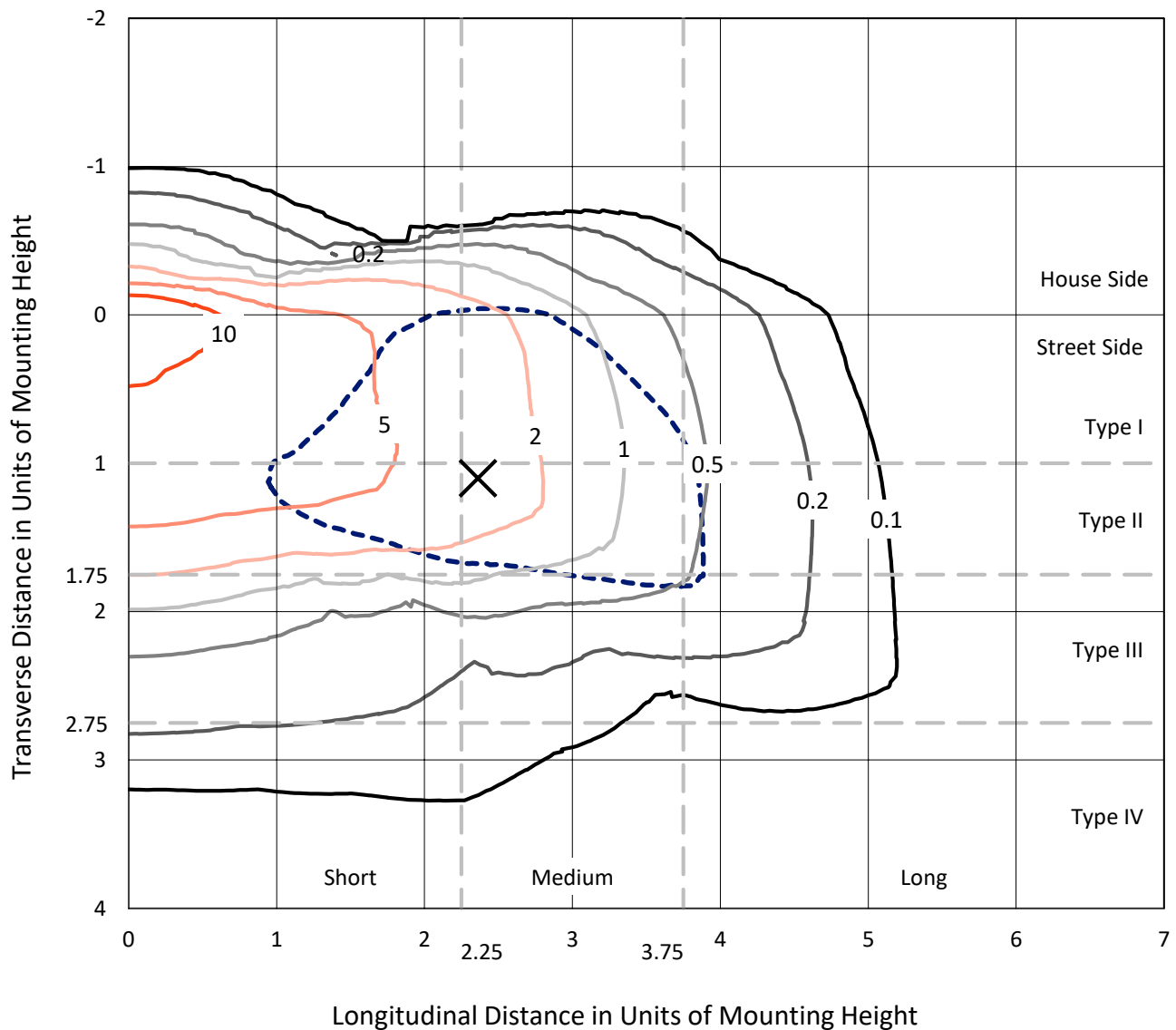
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

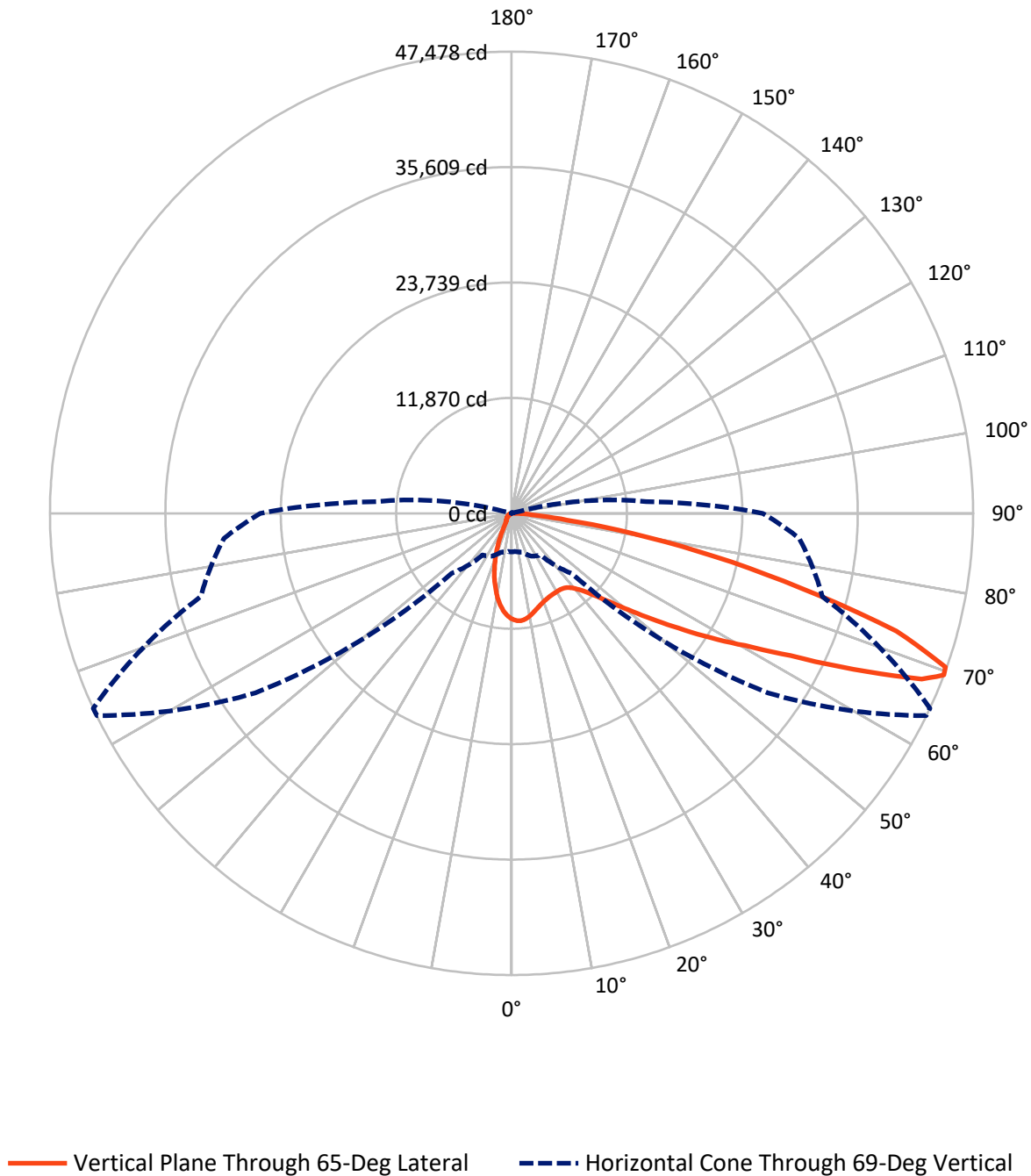
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	5077.4	0.0	5077.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	37996.6	0.0	37996.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	43074.0	0.0	43074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.2	2.1
10°-20°	1992.5	4.6
20°-30°	2759.7	6.4
30°-40°	3847.8	8.9
40°-50°	5980.8	13.9
50°-60°	9601.5	22.3
60°-70°	10860.9	25.2
70°-80°	6378.7	14.8
80°-90°	742.0	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°	43074.0	100.0
0°-180°	43074.0	100.0

Coefficient of Utilization



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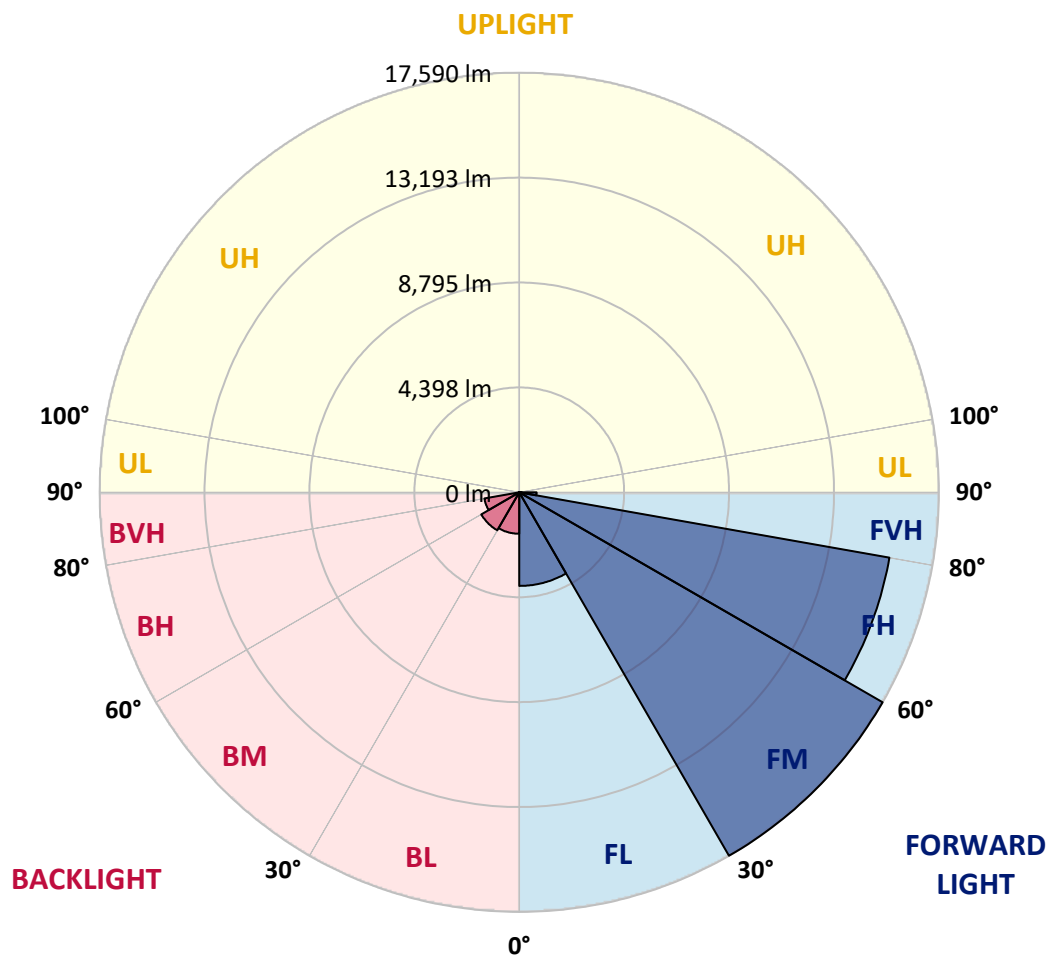
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3925.0	9.1			
FM	(30°-60°)	17590.2	40.8			
FH	(60°-80°)	15756.1	36.6			G5
FVH	(80°-90°)	725.3	1.7			G4/750
BL	(0°-30°)	1737.3	4.0	B3/2500		
BM	(30°-60°)	1839.9	4.3	B2/2500		
BH	(60°-80°)	1483.5	3.4	B3/2500		G3/2500
BVH	(80°-90°)	16.7	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°	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9
2.5°	10981.5	10954.1	10976.0	11023.4	11047.1	11047.1	11065.3	11043.4	11050.7	10997.9	10921.3
5°	10294.3	10252.4	10312.6	10445.6	10609.7	10750.0	10957.8	11067.1	11078.1	11079.9	10990.6
7.5°	9554.3	9516.1	9605.4	9762.1	9973.5	10234.2	10596.9	10914.0	10932.3	11103.6	11038.0
10°	8952.9	8925.5	9029.4	9197.1	9445.0	9736.6	10181.3	10622.4	10675.3	11054.4	11030.7
12.5°	8475.3	8453.5	8551.9	8745.1	8998.4	9321.0	9785.8	10298.0	10369.1	10943.2	10994.2
15°	8127.2	8123.6	8205.6	8391.5	8672.2	8972.9	9448.6	9997.2	10079.3	10822.9	10988.8
17.5°	7944.9	7950.4	8010.6	8169.1	8409.7	8708.6	9164.3	9743.9	9833.2	10715.4	11016.1
20°	7926.7	7932.2	7965.0	8054.3	8249.3	8513.6	8932.8	9530.6	9623.6	10635.2	11059.8
22.5°	8087.1	8083.5	8092.6	8083.5	8192.8	8393.3	8779.7	9366.6	9474.1	10582.3	11094.5
25°	8395.1	8389.7	8386.0	8318.6	8245.7	8353.2	8715.9	9273.7	9375.7	10544.0	11114.5
27.5°	8823.5	8819.8	8814.3	8703.2	8484.4	8417.0	8723.2	9239.0	9324.7	10513.1	11110.9
30°	9386.7	9412.2	9404.9	9250.0	8909.1	8612.0	8799.8	9220.8	9295.5	10452.9	11072.6
32.5°	10048.3	10099.3	10139.4	9973.5	9547.0	8998.4	8976.6	9240.8	9295.5	10407.3	11003.3
35°	10735.4	10801.0	10948.7	10890.3	10329.0	9579.9	9280.9	9361.1	9406.7	10432.9	10970.5
37.5°	11411.6	11490.0	11810.8	11980.3	11353.3	10349.0	9754.8	9658.2	9681.9	10587.8	11007.0
40°	12197.2	12315.7	12802.3	13075.7	12576.3	11378.8	10463.8	10168.6	10177.7	10928.6	11176.5
42.5°	13228.8	13350.9	13877.7	14306.0	13954.2	12680.2	11426.2	10948.7	10939.6	11566.5	11575.7
45°	14486.4	14614.0	15159.0	15634.7	15476.1	14222.2	12658.3	12087.8	12076.9	12572.7	12332.1
47.5°	15911.7	16037.5	16524.2	17014.5	17185.8	16022.9	14227.6	13642.5	13617.0	13970.6	13500.4
50°	17134.7	17216.8	17665.1	18324.9	19097.7	18235.6	16179.7	15616.5	15589.1	15827.9	15215.5
52.5°	17579.5	17626.9	18082.5	19006.6	20935.0	21232.1	18744.1	18018.7	17998.7	18102.6	17499.3
55°	16679.1	16764.7	17324.3	18694.9	21930.1	24618.6	21981.2	20993.3	20842.0	20617.8	19887.0
57.5°	14225.8	14362.5	14964.0	16786.6	21465.4	27305.1	26738.3	24357.9	24135.6	22764.9	21828.1
60°	10658.9	10826.6	11326.0	13292.6	18984.7	28262.0	31936.5	28107.1	27605.9	24474.6	23612.5
62.5°	7314.3	7398.1	7737.2	9018.5	13981.6	26694.6	36285.3	33128.5	32213.5	26333.7	25542.6
65°	5586.4	5615.6	5754.1	6195.2	8325.9	21684.1	38015.0	39753.9	38647.5	28557.3	27545.7
67.5°	4501.9	4478.3	4669.6	5300.3	5575.5	13228.8	35997.4	46022.0	45504.3	31530.0	29561.6
69°	3969.7	3936.9	4132.0	4864.7	5236.5	8745.1	32180.7	47445.4	47478.3	33099.4	29700.1
70°	3572.4	3594.3	3787.5	4605.8	5121.7	6864.1	28535.4	47082.7	47341.6	33686.2	28869.0
72.5°	2385.9	2444.2	2832.4	3823.9	4924.8	5194.6	17229.5	40402.7	41397.9	32364.8	24768.0
75°	1345.1	1388.9	1850.0	2883.4	4640.5	4946.7	9100.5	29765.7	30728.1	27064.6	19099.6
77.5°	659.8	683.5	1046.2	1860.9	3880.4	4713.4	5161.7	20218.7	21317.7	17665.1	10802.9
80°	278.9	291.6	523.1	1148.3	2774.1	4498.3	3833.0	12443.2	12579.9	6920.6	2878.0
82.5°	107.5	111.2	220.5	716.3	1762.5	3506.8	3206.0	5899.9	5757.8	1303.2	656.2
85°	12.8	14.6	80.2	430.1	980.6	1804.4	2604.6	2542.6	2353.0	258.8	337.2
87.5°	0.0	0.0	5.5	131.2	291.6	845.7	1354.2	1055.3	951.4	83.8	175.0
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°	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9	10884.9
2.5°	10857.5	10839.3	10740.9	10598.7	10463.8	10296.2	10135.8	10039.2	9962.6	9911.6	9971.7
5°	10886.7	10806.5	10507.6	10124.8	9749.4	9326.5	8932.8	8599.3	8468.0	8322.2	8387.8
7.5°	10877.6	10726.3	10188.6	9507.0	8818.0	8105.3	7431.0	6911.5	6641.7	6377.5	6444.9
10°	10832.0	10576.8	9762.1	8752.4	7720.8	6696.4	5739.5	5012.3	4605.8	4237.7	4290.5
12.5°	10731.8	10376.4	9259.1	7888.4	6508.7	5158.1	4037.2	3105.8	2606.4	2385.9	2413.2
15°	10671.6	10181.3	8726.9	7013.6	5214.6	3592.4	2467.9	1835.4	1607.6	1534.7	1543.8
17.5°	10642.5	9993.6	8176.4	6012.9	3891.4	2287.4	1594.8	1407.1	1357.9	1345.1	1348.8
20°	10613.3	9804.0	7609.6	5023.2	2681.1	1538.3	1310.5	1255.8	1237.6	1221.2	1224.8
22.5°	10564.1	9621.8	7000.8	4020.8	1808.1	1248.5	1181.1	1128.2	1089.9	1069.9	1073.5
25°	10503.9	9430.4	6379.3	2994.6	1319.6	1113.6	1049.8	975.1	929.6	893.1	894.9
27.5°	10407.3	9195.3	5737.7	2179.9	1108.2	997.0	911.3	829.3	752.8	710.8	710.8
30°	10272.5	8929.2	5025.1	1560.2	993.3	882.2	778.3	676.2	594.2	555.9	552.3
32.5°	10123.0	8652.1	4305.1	1182.9	902.2	774.6	656.2	548.6	475.7	444.7	442.9
35°	9995.4	8353.2	3587.0	991.5	811.1	670.7	541.3	450.2	391.9	366.4	364.5
37.5°	9913.4	8054.3	2887.1	885.8	729.1	574.1	453.8	371.8	329.9	309.9	308.0
40°	9900.6	7831.9	2247.3	805.6	652.5	488.5	379.1	315.3	277.0	255.2	253.3
42.5°	10066.5	7704.3	1724.2	738.2	574.1	413.7	322.6	269.8	229.7	207.8	206.0
45°	10502.1	7744.4	1326.9	678.0	495.8	349.9	273.4	224.2	187.7	171.3	167.7
47.5°	11296.8	8021.5	1055.3	617.9	421.0	297.1	233.3	185.9	154.9	138.5	136.7
50°	12711.2	8672.2	882.2	552.3	351.8	253.3	193.2	151.3	125.8	111.2	109.4
52.5°	14588.5	9831.4	787.4	488.5	291.6	215.1	158.6	120.3	98.4	87.5	85.7
55°	16659.0	11234.8	725.4	419.2	238.8	178.6	125.8	94.8	76.6	67.4	63.8
57.5°	18680.4	12450.5	667.1	351.8	198.7	145.8	100.2	74.7	60.1	51.0	49.2
60°	20537.6	13567.8	599.7	282.5	162.2	114.8	78.4	58.3	47.4	38.3	38.3
62.5°	22526.2	14431.8	506.7	220.5	133.1	87.5	63.8	52.9	38.3	32.8	31.0
65°	24633.1	15073.3	397.3	171.3	103.9	65.6	52.9	54.7	31.0	23.7	21.9
67.5°	26189.7	14945.7	293.4	134.9	80.2	51.0	51.0	58.3	27.3	18.2	16.4
69°	25847.0	13908.7	246.1	116.6	69.3	43.7	47.4	58.3	25.5	16.4	14.6
70°	24853.7	12760.4	216.9	103.9	62.0	40.1	45.6	56.5	23.7	16.4	14.6
72.5°	20698.0	9610.8	169.5	78.4	49.2	32.8	38.3	49.2	23.7	16.4	12.8
75°	15569.1	6151.4	129.4	56.5	36.5	25.5	29.2	36.5	23.7	14.6	12.8
77.5°	8471.7	2218.2	93.0	38.3	25.5	20.0	20.0	27.3	21.9	10.9	7.3
80°	2178.1	557.7	58.3	25.5	20.0	14.6	12.8	18.2	12.8	1.8	0.0
82.5°	537.7	125.8	31.0	18.2	14.6	5.5	5.5	9.1	5.5	0.0	0.0
85°	295.3	62.0	20.0	12.8	7.3	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	151.3	18.2	5.5	3.6	1.8	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)