

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: P323774

Luminaire Tested: **GAN-SA0C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323774
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-SA0C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 47517 lumens
Efficiency: N/A
Efficacy: 85.2 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): 558
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

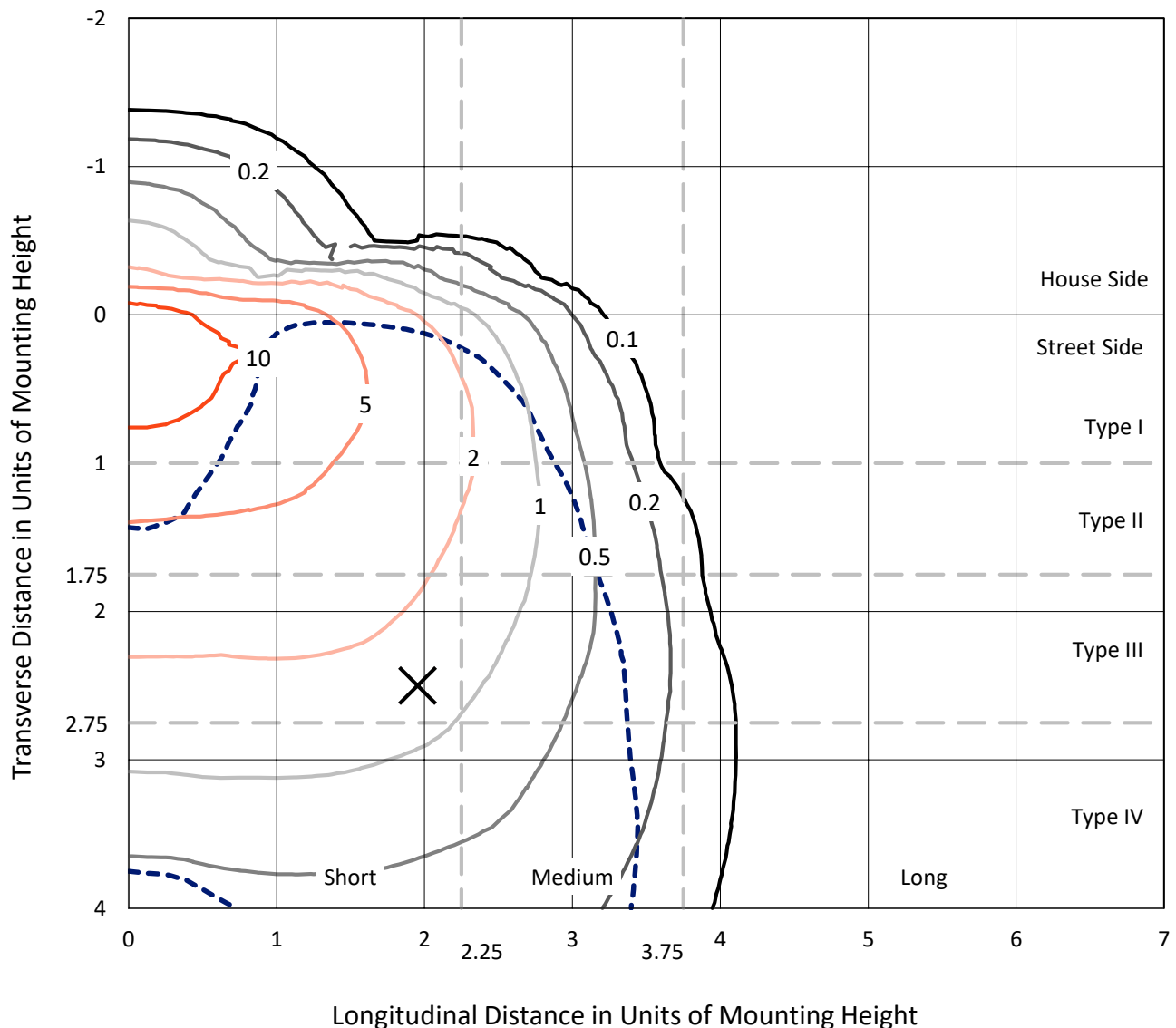


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Iso-Footcandle Lines of Horizontal Illumination

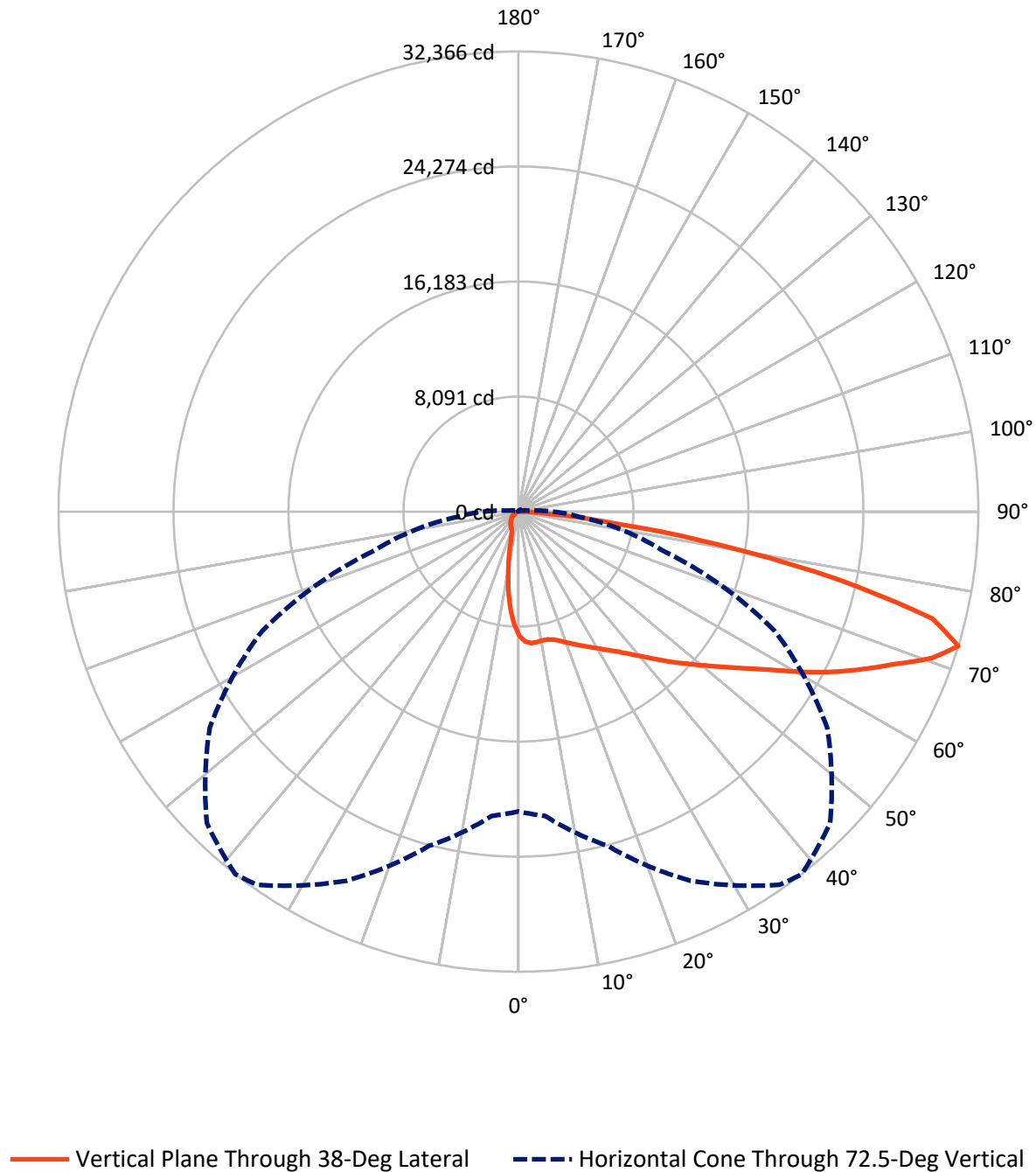
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	3998.7	0.0	3998.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	43518.3	0.0	43518.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	47517.0	0.0	47517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.7	1.6
10°-20°	1820.9	3.8
20°-30°	2896.1	6.1
30°-40°	4353.9	9.2
40°-50°	6642.2	14.0
50°-60°	9387.7	19.8
60°-70°	11775.3	24.8
70°-80°	8804.6	18.5
80°-90°	1091.7	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°	47517.0	100.0
0°-180°	47517.0	100.0

Coefficient of Utilization



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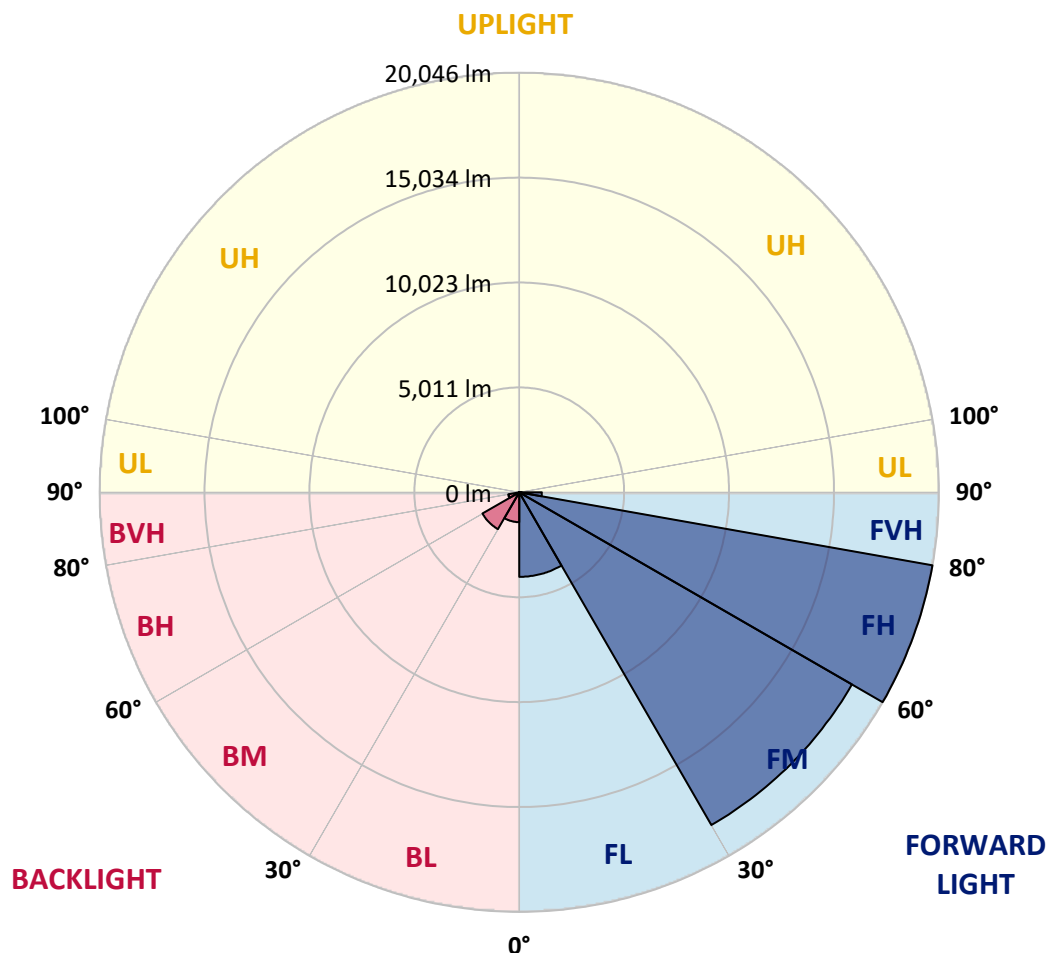
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4037.8	8.5			
FM	(30°-60°)	18353.2	38.6			
FH	(60°-80°)	20045.7	42.2			G5
FVH	(80°-90°)	1081.6	2.3			G5
BL	(0°-30°)	1423.8	3.0	B3/2500		
BM	(30°-60°)	2030.6	4.3	B2/2500		
BH	(60°-80°)	534.2	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.2	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°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	9275.0	9277.0	9255.3	9219.7	9174.3	9150.7	9111.2	9048.0	8980.9	8860.6	8730.3
5°	9464.4	9464.4	9436.8	9389.4	9316.4	9294.7	9219.7	9119.1	8980.9	8785.6	8566.5
7.5°	9444.7	9448.6	9411.1	9361.8	9288.8	9269.1	9178.3	9065.8	8894.1	8657.3	8377.1
10°	9342.1	9351.9	9322.3	9298.7	9231.6	9209.9	9125.0	9012.5	8840.8	8588.2	8266.6
12.5°	9237.5	9247.4	9257.2	9278.9	9237.5	9229.6	9162.5	9067.8	8904.0	8641.5	8278.4
15°	9170.4	9190.1	9261.2	9346.0	9355.9	9348.0	9304.6	9215.8	9050.0	8777.7	8363.3
17.5°	9170.4	9202.0	9350.0	9511.8	9569.0	9574.9	9537.4	9413.1	9215.8	8923.7	8442.2
20°	9247.4	9290.8	9521.7	9750.6	9845.3	9845.3	9772.3	9598.6	9367.7	9055.9	8495.5
22.5°	9444.7	9501.9	9792.0	10056.5	10157.1	10135.4	10036.7	9784.1	9525.6	9205.9	8562.6
25°	9833.5	9876.9	10178.8	10445.2	10506.4	10457.1	10332.7	10009.1	9726.9	9409.2	8684.9
27.5°	10334.7	10340.6	10652.4	10877.4	10839.9	10806.3	10650.4	10291.3	10017.0	9699.3	8896.1
30°	10885.3	10885.3	11159.6	11331.3	11216.8	11189.2	11033.3	10632.7	10388.0	10093.9	9196.0
32.5°	11418.1	11441.8	11664.8	11773.3	11645.0	11617.4	11465.5	11064.9	10881.3	10695.8	9663.7
35°	11933.2	11950.9	12162.1	12221.3	12098.9	12106.8	11998.3	11658.9	11589.8	11566.1	10368.2
37.5°	12432.4	12436.4	12651.5	12689.0	12627.8	12694.9	12704.8	12404.8	12533.1	12724.5	11360.9
40°	12888.3	12892.2	13105.4	13202.1	13306.6	13393.5	13470.4	13310.6	13734.9	14178.9	12542.9
42.5°	13253.4	13294.8	13565.2	13748.7	14025.0	14190.7	14399.9	14392.0	15165.6	15832.6	13971.7
45°	13575.0	13646.1	14023.0	14344.7	14818.3	15082.7	15410.3	15666.8	16775.9	17673.8	15418.2
47.5°	13999.3	14066.4	14496.6	15023.5	15655.0	16002.3	16545.0	17099.5	18546.0	19481.4	16831.1
50°	14597.2	14567.6	14991.9	15747.7	16558.8	17014.7	17788.2	18619.0	20302.3	21056.2	17661.9
52.5°	15234.7	15222.8	15536.6	16535.1	17624.4	18157.3	19179.5	20189.9	21981.7	22141.6	18042.8
55°	16024.0	15939.2	16203.6	17433.0	18889.4	19461.7	20665.5	21744.9	23319.7	22753.3	18234.2
57.5°	16850.9	16710.8	16963.4	18433.5	20316.2	20993.0	22311.3	23260.5	24209.7	23171.7	18232.3
60°	17705.4	17539.6	17839.5	19684.7	22088.3	22871.7	24095.2	24284.7	25040.5	23382.8	18098.1
62.5°	18419.7	18321.1	18767.0	21022.6	24067.6	24837.2	25443.1	25216.1	25741.0	23546.6	17784.3
65°	19175.5	19181.5	19901.7	22583.6	26171.2	26690.2	26741.6	26423.8	26327.1	23513.1	16722.6
67.5°	20197.8	20292.5	21494.3	24703.0	28217.7	28618.3	28614.3	27732.2	26755.4	22179.1	14368.3
70°	21279.2	21502.2	23329.5	27128.3	30451.6	30858.1	30648.9	28565.0	25192.4	17934.3	10168.9
72.5°	21097.6	21484.4	24349.8	28657.7	32055.9	32365.7	31006.1	26518.6	19911.6	10423.5	4329.6
75°	16276.6	16724.6	22327.1	27142.2	30372.6	30094.4	26640.9	20635.9	10881.3	2908.8	974.9
77.5°	8598.1	8836.9	14749.2	20677.3	23682.8	23100.6	18767.0	11447.7	3317.3	720.3	438.1
80°	4503.3	4558.6	6427.4	11731.9	14617.0	14620.9	11122.1	5028.2	1367.6	369.0	294.0
82.5°	2411.5	2458.9	3396.2	5420.9	7658.8	6942.4	4258.6	2766.7	795.3	209.2	282.2
85°	580.2	590.0	1926.0	2476.6	3011.4	2151.0	1265.0	2322.7	215.1	122.4	228.9
87.5°	223.0	226.9	714.4	1071.6	767.7	497.3	592.0	866.3	27.6	47.4	35.5
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°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8651.4	8600.1	8473.8	8313.9	8171.9	8069.2	7915.3	7814.7	7747.6	7745.6	7719.9
5°	8432.3	8327.8	8055.4	7731.8	7437.7	7173.3	6861.5	6614.8	6431.3	6401.7	6338.6
7.5°	8197.5	8025.8	7607.5	7102.3	6608.9	6107.7	5525.5	5164.4	4854.6	4706.6	4690.8
10°	8053.4	7812.7	7218.7	6488.5	5715.0	4900.0	4138.2	3611.3	3230.5	3121.9	3041.0
12.5°	8023.8	7706.1	6918.7	5912.3	4807.2	3729.7	2887.1	2326.6	2022.7	1926.0	1900.4
15°	8053.4	7656.8	6666.1	5342.0	3887.6	2646.3	1937.9	1612.3	1497.8	1470.2	1468.2
17.5°	8071.2	7597.6	6380.0	4708.5	2995.6	1890.5	1484.0	1389.3	1371.5	1369.5	1373.5
20°	8069.2	7506.8	6038.6	4002.1	2228.0	1486.0	1341.9	1322.2	1318.2	1320.2	1318.2
22.5°	8055.4	7400.3	5663.7	3273.9	1683.3	1328.1	1280.7	1268.9	1266.9	1266.9	1266.9
25°	8081.1	7315.4	5251.2	2577.3	1387.3	1255.1	1225.5	1215.6	1213.6	1213.6	1209.7
27.5°	8173.8	7268.0	4799.3	1983.3	1253.1	1190.0	1166.3	1164.3	1158.4	1156.4	1160.4
30°	8323.8	7268.0	4304.0	1543.2	1172.2	1122.9	1105.1	1101.2	1099.2	1097.2	1099.2
32.5°	8588.2	7323.3	3763.3	1282.7	1095.2	1047.9	1036.0	1042.0	1036.0	1036.0	1036.0
35°	9065.8	7489.1	3196.9	1118.9	1014.3	974.9	963.0	970.9	967.0	967.0	965.0
37.5°	9762.4	7796.9	2626.6	1020.2	943.3	901.8	886.1	897.9	894.0	894.0	892.0
40°	10611.0	8244.9	2083.9	945.3	874.2	830.8	817.0	822.9	813.0	813.0	817.0
42.5°	11658.9	8813.2	1610.3	872.2	805.1	763.7	755.8	749.9	732.1	722.3	724.2
45°	12823.2	9405.2	1255.1	801.2	740.0	706.5	694.6	678.8	649.2	629.5	631.5
47.5°	13863.1	9861.1	1020.2	732.1	680.8	655.2	637.4	607.8	564.4	540.7	542.7
50°	14409.8	9930.2	868.3	663.1	625.6	599.9	574.3	528.9	477.6	451.9	449.9
52.5°	14549.9	9606.5	755.8	599.9	570.3	540.7	507.2	446.0	388.8	361.1	357.2
55°	14601.2	9113.2	655.2	540.7	511.1	477.6	434.1	365.1	311.8	284.2	282.2
57.5°	14431.5	8377.1	576.2	487.4	451.9	410.5	357.2	292.1	240.8	219.0	219.0
60°	14054.6	7380.5	515.1	430.2	390.7	343.4	288.1	226.9	179.6	161.8	161.8
62.5°	13302.7	6089.9	457.8	371.0	333.5	284.2	232.9	171.7	126.3	116.4	118.4
65°	11883.8	4619.7	400.6	317.7	284.2	234.8	181.6	122.4	84.9	84.9	88.8
67.5°	9691.4	3208.8	341.4	270.4	244.7	191.4	138.1	84.9	59.2	67.1	75.0
70°	6415.5	1799.7	292.1	223.0	209.2	152.0	102.6	57.2	47.4	63.1	77.0
72.5°	2421.4	700.6	244.7	179.6	181.6	116.4	73.0	43.4	43.4	69.1	90.8
75°	674.9	343.4	175.6	132.2	142.1	84.9	53.3	37.5	41.4	78.9	106.6
77.5°	396.7	252.6	114.5	77.0	96.7	59.2	35.5	29.6	35.5	67.1	102.6
80°	319.7	134.2	67.1	39.5	53.3	33.5	23.7	17.8	9.9	25.7	53.3
82.5°	319.7	80.9	31.6	27.6	27.6	17.8	11.8	7.9	2.0	0.0	13.8
85°	215.1	33.5	19.7	17.8	13.8	5.9	3.9	2.0	0.0	0.0	0.0
87.5°	35.5	13.8	7.9	3.9	2.0	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)