

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: P323502

Luminaire Tested: **GAN-SA8D-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323502
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-SA8D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 48381 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

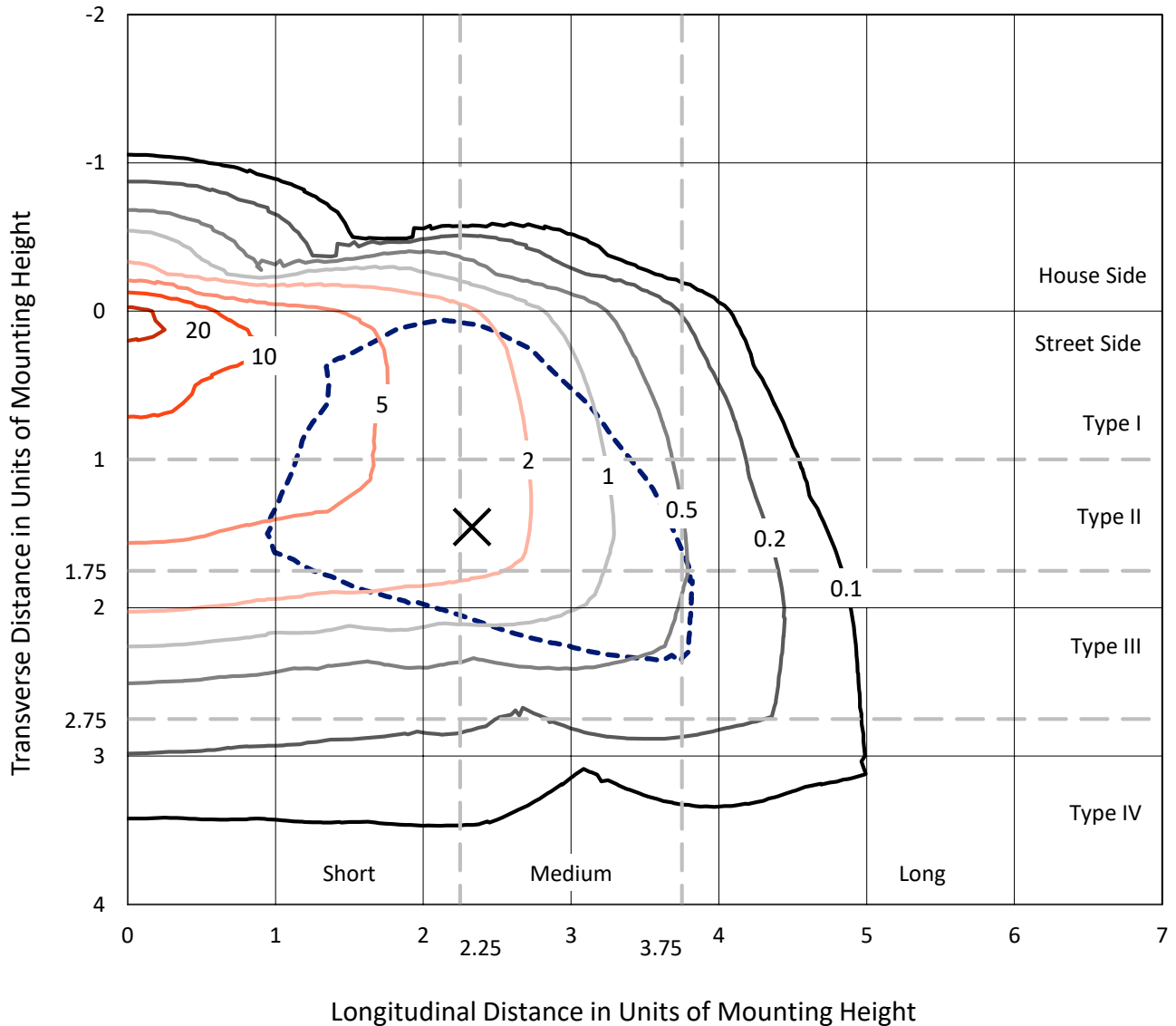
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

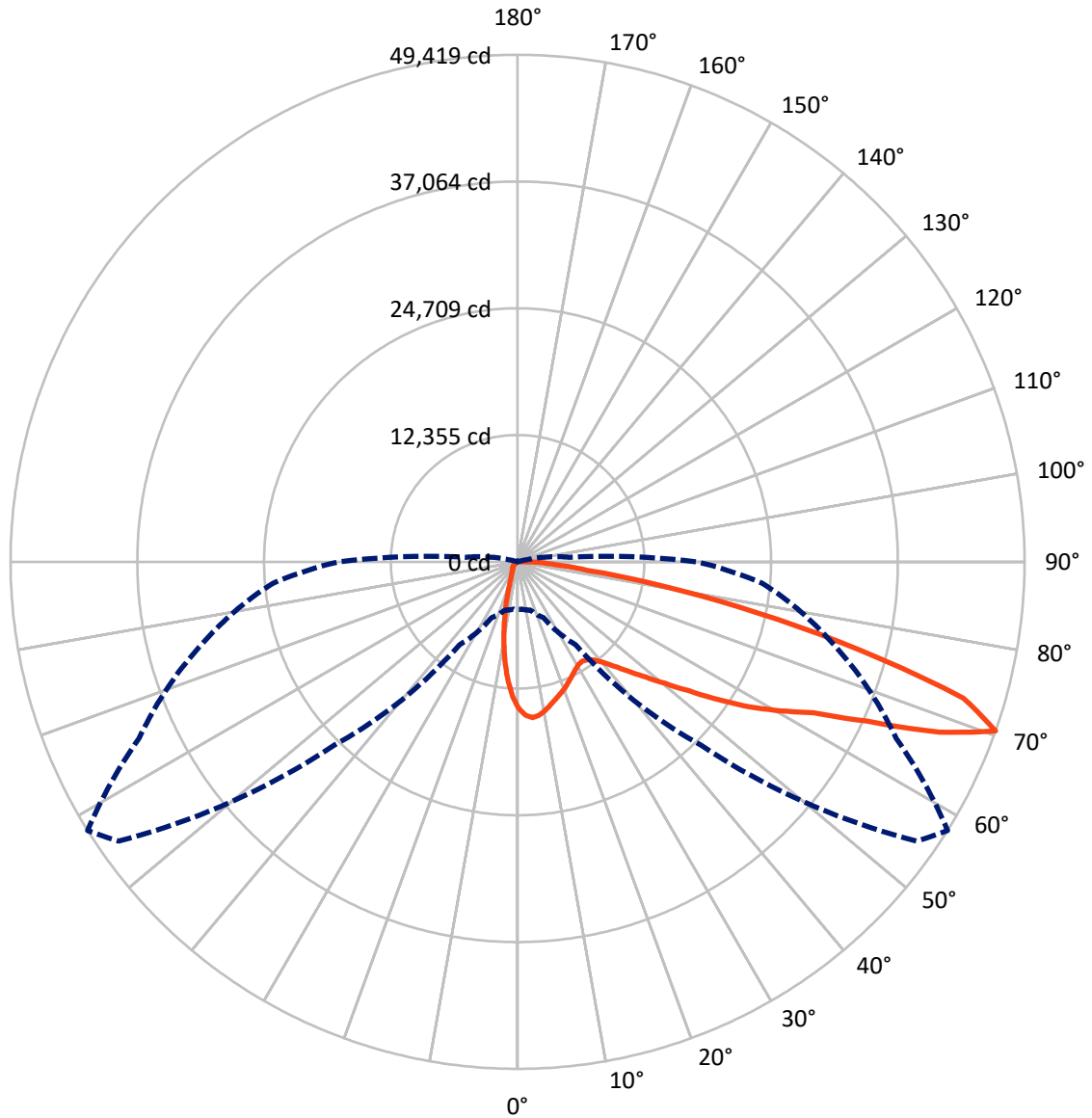
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 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	4140.3	0.0	4140.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	44240.7	0.0	44240.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	48381.0	0.0	48381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.7	2.4
10°-20°	2452.8	5.1
20°-30°	3224.6	6.7
30°-40°	4270.6	8.8
40°-50°	6383.2	13.2
50°-60°	10225.6	21.1
60°-70°	12889.3	26.6
70°-80°	6952.4	14.4
80°-90°	813.8	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°	48381.0	100.0
0°-180°	48381.0	100.0

Coefficient of Utilization

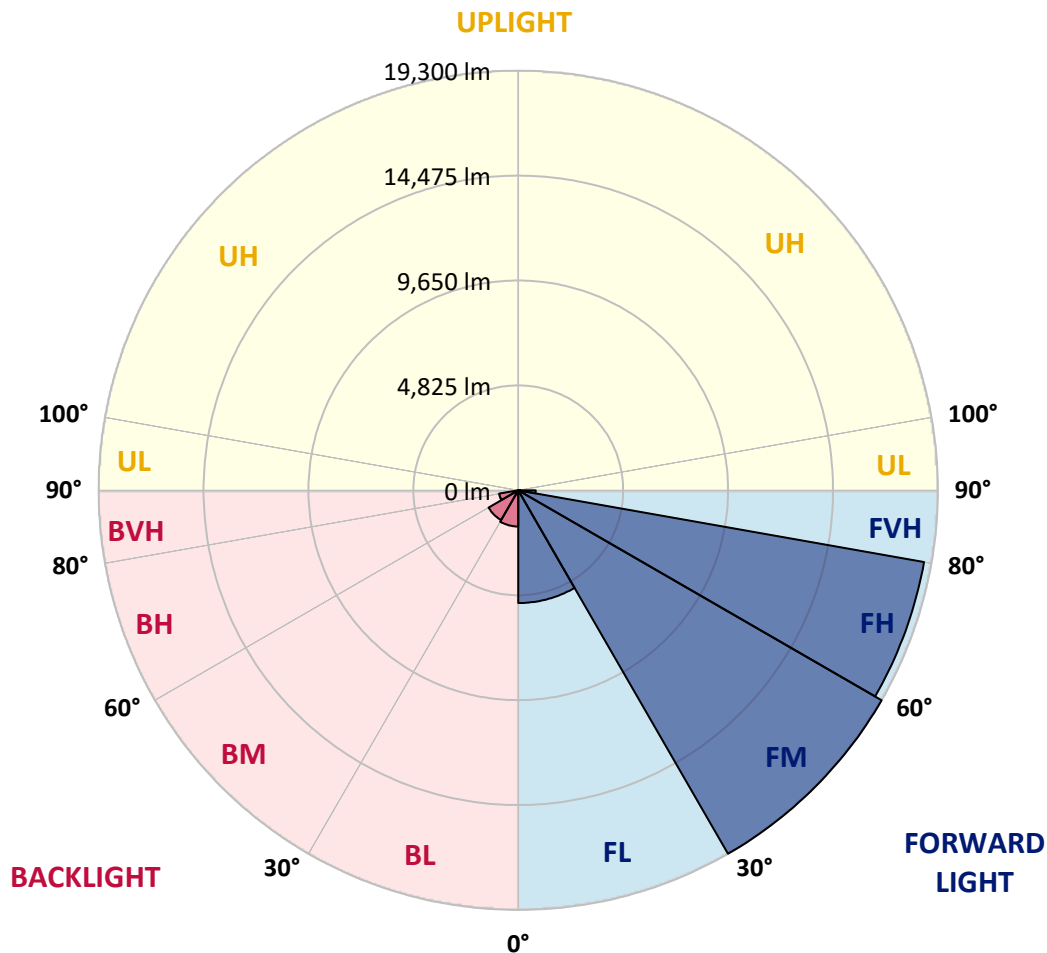


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5182.6	10.7			
FM (30°-60°)	19299.9	39.9			
FH (60°-80°)	18951.4	39.2			G5
FVH (80°-90°)	806.8	1.7			G5
BL (0°-30°)	1663.4	3.4	B3/2500		
BM (30°-60°)	1579.5	3.3	B2/2500		
BH (60°-80°)	890.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	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°	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5
2.5°	15476.4	15438.2	15424.1	15400.0	15307.5	15216.9	15037.9	14987.6	14874.9	14607.4	14323.7
5°	15488.5	15486.5	15528.7	15518.7	15486.5	15444.3	15315.5	15249.1	15058.0	14675.8	14156.7
7.5°	14742.2	14780.4	14874.9	14951.4	15039.9	15154.6	15170.7	15106.3	14949.4	14537.0	13848.9
10°	13740.3	13800.6	13933.4	14084.3	14315.7	14545.0	14750.2	14742.2	14687.8	14281.5	13478.8
12.5°	12736.4	12806.8	12959.7	13183.0	13511.0	13885.1	14251.3	14301.6	14392.1	14052.1	13136.8
15°	11857.3	11917.6	12068.5	12342.1	12748.5	13251.4	13788.6	13881.1	14114.5	13873.1	12851.1
17.5°	11110.9	11149.2	11259.8	11563.6	12034.3	12643.9	13342.0	13523.0	13871.1	13732.3	12603.7
20°	10589.9	10595.9	10668.3	10881.6	11352.3	12034.3	12879.3	13138.8	13613.6	13611.5	12348.2
22.5°	10332.4	10312.3	10326.3	10449.1	10795.1	11452.9	12416.6	12724.4	13382.2	13508.9	12088.6
25°	10284.1	10268.0	10227.8	10243.9	10453.1	10944.0	11949.8	12305.9	13179.0	13446.6	11863.3
27.5°	10435.0	10451.1	10382.7	10310.3	10326.3	10614.0	11535.4	11947.8	13014.1	13446.6	11704.4
30°	10738.8	10746.8	10696.5	10602.0	10475.2	10521.5	11247.7	11660.1	12931.6	13539.1	11603.8
32.5°	11074.7	11119.0	11112.9	11036.5	10855.4	10668.3	11179.3	11555.5	12925.5	13744.3	11593.8
35°	11491.2	11541.4	11625.9	11609.8	11420.7	11112.9	11412.7	11708.4	13044.2	14082.3	11702.4
37.5°	11933.7	12010.2	12191.2	12277.8	12155.0	11807.0	11935.8	12147.0	13362.1	14629.5	11978.0
40°	12362.2	12448.7	12778.7	13118.7	13026.1	12668.0	12728.4	12897.4	13927.4	15416.1	12501.1
42.5°	12782.7	12911.5	13396.3	13955.6	14066.2	13780.5	13812.7	13947.5	14766.3	16498.4	13356.1
45°	13285.6	13430.5	14148.7	14838.7	15134.4	15009.7	15146.5	15235.0	15862.7	17928.8	14508.8
47.5°	14024.0	14190.9	15072.1	15858.7	16377.7	16458.2	16733.8	16792.1	17248.8	19594.5	16011.6
50°	15464.4	15510.6	16307.3	17021.5	17769.8	18252.7	18566.5	18610.8	18926.6	21415.1	17888.5
52.5°	17277.0	17307.1	17757.8	18236.6	19087.5	20073.3	20807.6	20870.0	20936.4	23189.5	19741.4
55°	19077.5	19073.5	19371.2	19652.8	20626.5	22058.9	23652.2	23690.4	23213.7	24873.4	21157.6
57.5°	20202.1	20310.7	20763.3	21125.5	22485.4	24322.1	26533.1	26673.9	25605.6	26120.6	22557.8
60°	19844.0	19896.3	20900.1	22240.0	24800.9	27538.9	29448.1	29484.3	27404.1	27365.9	24328.2
62.5°	16906.8	16935.0	18512.2	21274.3	25973.8	31711.3	32964.6	32375.2	29472.2	29094.0	26446.6
65°	11587.7	11770.8	13088.5	16502.4	23819.2	34328.6	38408.5	37432.8	32624.7	31584.6	28361.7
67.5°	6823.9	6785.7	7437.5	9952.2	17494.2	32590.5	45294.7	44325.0	36923.8	33252.3	27800.5
70°	4661.2	4635.1	4884.5	6025.2	9875.7	25281.7	47461.4	49418.8	40720.0	32129.8	23925.8
72.5°	3327.4	3341.5	3709.7	4681.4	6200.2	14730.1	40814.5	45447.6	39531.0	28009.7	18186.3
75°	2259.2	2297.4	2824.5	3840.4	5435.8	7493.8	28963.3	34547.9	32190.1	20357.0	10453.1
77.5°	1215.1	1257.3	1879.0	3094.1	4914.7	5206.4	18630.9	23777.0	20220.2	9151.5	3029.7
80°	507.0	531.1	879.1	2249.1	4246.8	4572.7	10962.1	14418.3	8616.4	1804.5	676.0
82.5°	219.3	231.4	366.1	1341.8	3174.6	3860.6	5803.9	6936.5	2611.3	396.3	340.0
85°	42.2	44.3	150.9	710.2	2025.8	2178.7	3762.0	3687.5	1172.9	171.0	247.4
87.5°	0.0	0.0	36.2	223.3	595.5	1186.9	2295.4	2267.2	398.3	82.5	92.5
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°	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5	14291.5
2.5°	14178.9	14040.0	13748.3	13388.2	13112.6	12808.9	12567.4	12261.7	12128.9	12134.9	12062.5
5°	13861.0	13575.3	12929.6	12114.8	11487.1	10839.3	10282.1	9726.8	9398.9	9292.3	9191.7
7.5°	13406.3	12953.7	11923.7	10668.3	9606.1	8568.1	7664.8	6870.1	6367.2	6121.8	6031.2
10°	12893.3	12257.6	10766.9	9113.3	7596.4	6192.2	5021.3	4003.4	3597.0	3321.4	3251.0
12.5°	12442.7	11581.7	9636.3	7517.9	5717.4	4023.5	2907.0	2273.3	1997.7	1889.0	1870.9
15°	12018.2	10950.0	8548.0	6073.5	3959.1	2476.5	1848.8	1633.5	1569.2	1551.1	1551.1
17.5°	11617.9	10348.5	7483.7	4651.2	2619.3	1736.1	1530.9	1482.7	1462.5	1460.5	1462.5
20°	11199.4	9747.0	6437.6	3407.9	1828.7	1470.6	1414.3	1388.1	1382.1	1382.1	1382.1
22.5°	10799.1	9145.4	5419.7	2434.2	1466.6	1341.8	1313.7	1295.6	1289.5	1287.5	1283.5
25°	10414.9	8574.1	4425.9	1720.1	1287.5	1229.2	1205.0	1180.9	1162.8	1152.7	1146.7
27.5°	10099.0	8065.1	3500.5	1380.1	1162.8	1112.5	1082.3	1046.1	1001.9	981.7	973.7
30°	9847.5	7600.4	2697.8	1164.8	1046.1	995.8	949.5	887.2	822.8	788.6	786.6
32.5°	9650.4	7143.7	2048.0	1030.0	941.5	879.1	812.7	734.3	659.9	621.6	619.6
35°	9553.8	6741.4	1565.1	931.4	849.0	770.5	688.0	601.5	529.1	492.9	488.9
37.5°	9618.2	6401.4	1221.1	849.0	770.5	680.0	583.4	492.9	428.5	396.3	394.3
40°	9853.6	6184.1	991.8	778.5	704.1	593.5	488.9	404.4	350.0	323.9	321.9
42.5°	10354.5	6103.7	846.9	720.2	639.7	513.0	406.4	334.0	283.7	265.6	261.5
45°	11191.4	6222.4	748.4	663.9	573.4	436.6	336.0	273.6	229.3	215.3	213.2
47.5°	12305.9	6534.2	678.0	609.6	513.0	368.2	279.6	221.3	187.1	173.0	171.0
50°	13742.3	7029.1	619.6	555.2	456.7	311.8	231.4	175.0	144.8	134.8	134.8
52.5°	15305.4	7618.5	567.3	505.0	400.3	259.5	187.1	134.8	114.7	102.6	102.6
55°	16597.0	8133.5	511.0	466.7	331.9	215.3	142.8	102.6	84.5	78.5	78.5
57.5°	17886.5	8682.7	446.6	400.3	265.6	175.0	108.6	76.4	62.4	58.3	58.3
60°	19558.3	9354.7	384.2	325.9	209.2	132.8	80.5	54.3	46.3	44.3	44.3
62.5°	21397.0	9749.0	327.9	261.5	163.0	98.6	58.3	36.2	34.2	34.2	32.2
65°	22521.6	9191.7	275.6	209.2	126.7	74.4	38.2	26.2	30.2	28.2	24.1
67.5°	21087.2	7196.1	225.3	163.0	98.6	56.3	24.1	18.1	32.2	26.2	20.1
70°	17460.0	5037.4	175.0	114.7	78.5	48.3	16.1	12.1	34.2	26.2	16.1
72.5°	13066.4	3371.7	138.8	76.4	58.3	42.2	14.1	6.0	30.2	22.1	14.1
75°	7139.7	1357.9	110.6	48.3	36.2	30.2	10.1	4.0	20.1	16.1	10.1
77.5°	1879.0	358.1	80.5	32.2	20.1	12.1	6.0	2.0	10.1	8.0	4.0
80°	478.8	138.8	52.3	22.1	14.1	6.0	0.0	0.0	2.0	0.0	0.0
82.5°	255.5	58.3	32.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	193.1	38.2	18.1	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	74.4	12.1	6.0	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)