

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: P323498

Luminaire Tested: **GAN-SA4D-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323498
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-SA4D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 24351 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

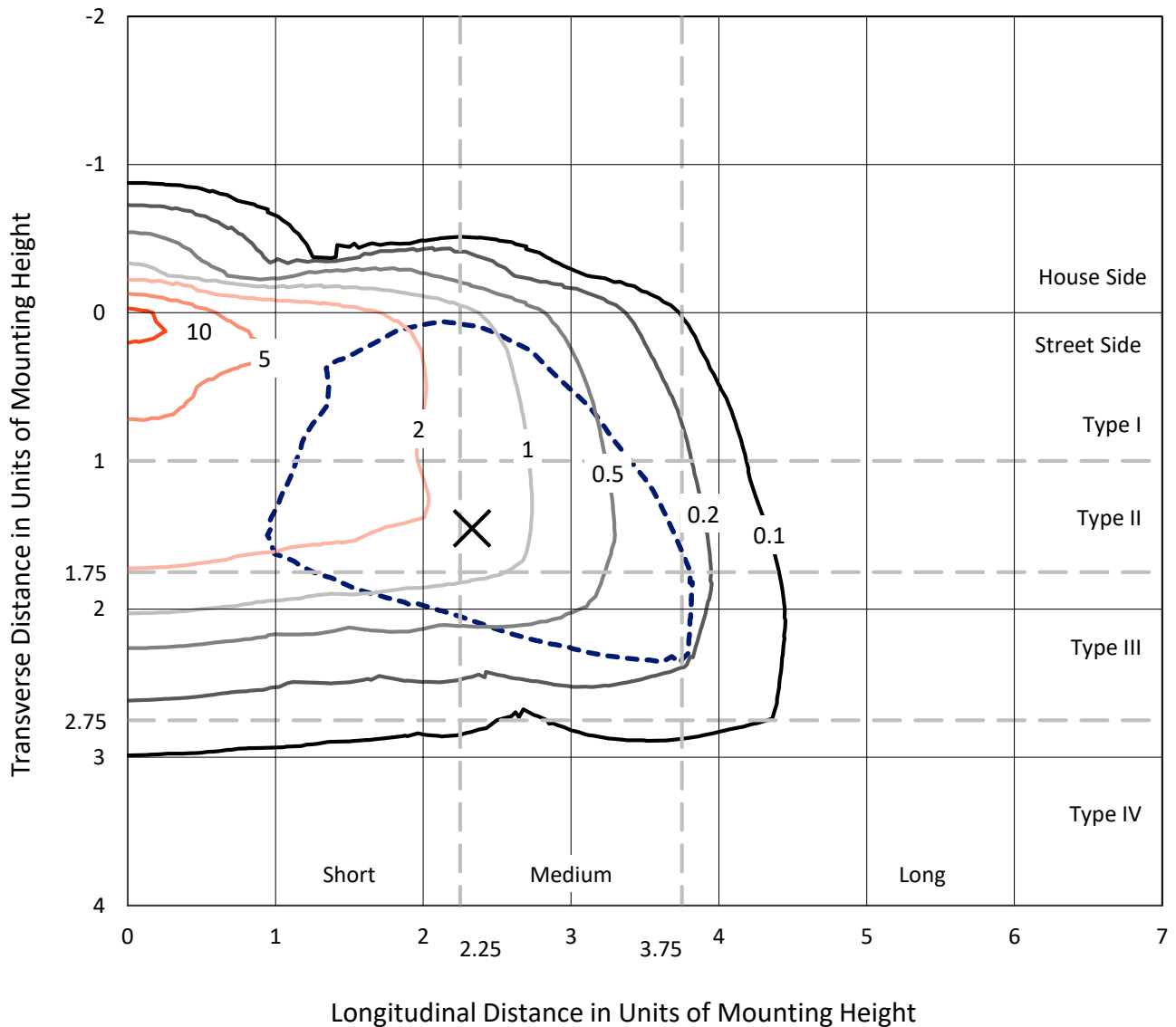
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

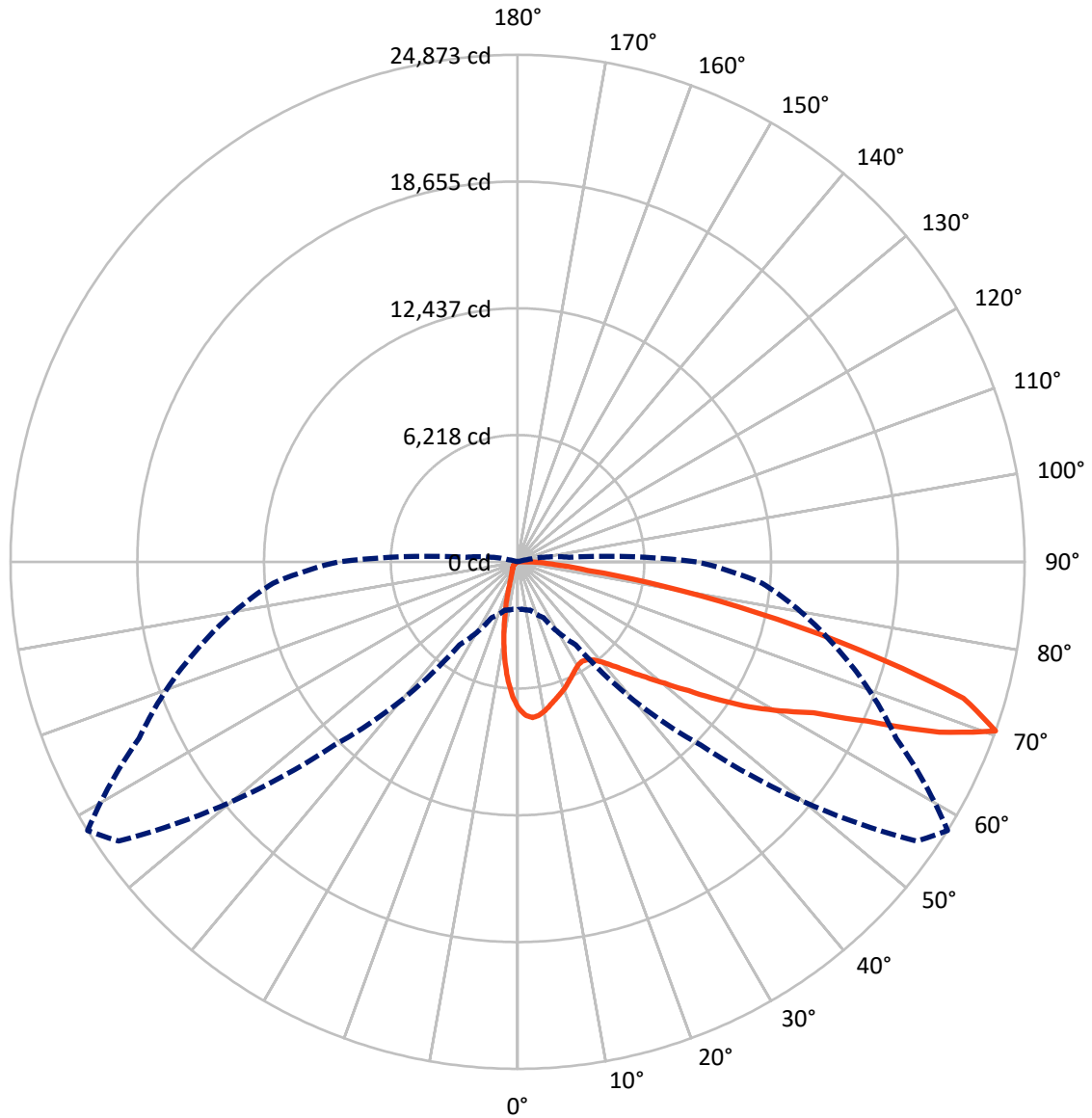
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	2083.9	0.0	2083.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	22267.1	0.0	22267.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	24351.0	0.0	24351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	2.4
10°-20°	1234.5	5.1
20°-30°	1623.0	6.7
30°-40°	2149.5	8.8
40°-50°	3212.8	13.2
50°-60°	5146.7	21.1
60°-70°	6487.4	26.6
70°-80°	3499.3	14.4
80°-90°	409.6	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°	24351.0	100.0
0°-180°	24351.0	100.0

Coefficient of Utilization

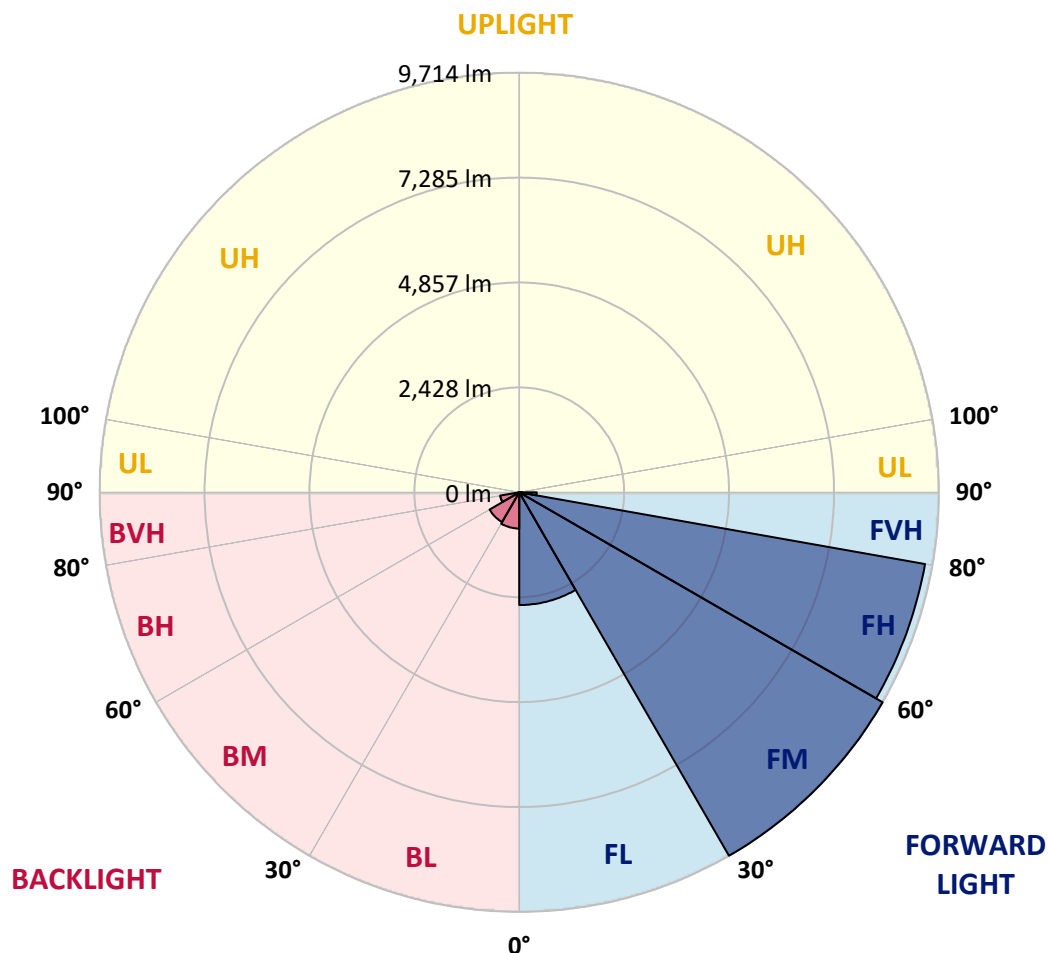


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.5	10.7			
FM (30°-60°)	9714.0	39.9			
FH (60°-80°)	9538.5	39.2			G4/12000
FVH (80°-90°)	406.1	1.7			G3/500
BL (0°-30°)	837.2	3.4	B2/1000		
BM (30°-60°)	795.0	3.3	B1/1000		
BH (60°-80°)	448.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2
2.5°	7789.6	7770.3	7763.2	7751.1	7704.5	7658.9	7568.8	7543.5	7486.8	7352.1	7209.4
5°	7795.6	7794.6	7815.9	7810.8	7794.6	7773.4	7708.6	7675.1	7579.0	7386.6	7125.3
7.5°	7420.0	7439.2	7486.8	7525.3	7569.8	7627.6	7635.7	7603.3	7524.3	7316.7	6970.4
10°	6915.7	6946.1	7012.9	7088.9	7205.3	7320.8	7424.0	7420.0	7392.6	7188.1	6784.1
12.5°	6410.5	6445.9	6522.9	6635.3	6800.3	6988.6	7172.9	7198.2	7243.8	7072.7	6612.0
15°	5968.0	5998.4	6074.3	6212.0	6416.5	6669.7	6940.0	6986.6	7104.1	6982.6	6468.2
17.5°	5592.3	5611.6	5667.3	5820.1	6057.1	6363.9	6715.2	6806.4	6981.5	6911.7	6343.6
20°	5330.1	5333.1	5369.6	5476.9	5713.8	6057.1	6482.4	6613.0	6851.9	6850.9	6215.0
22.5°	5200.5	5190.3	5197.4	5259.2	5433.4	5764.5	6249.5	6404.4	6735.5	6799.3	6084.4
25°	5176.2	5168.1	5147.8	5155.9	5261.2	5508.3	6014.6	6193.8	6633.2	6767.9	5971.0
27.5°	5252.1	5260.2	5225.8	5189.3	5197.4	5342.2	5806.0	6013.5	6550.2	6767.9	5891.0
30°	5405.0	5409.1	5383.7	5336.1	5272.4	5295.6	5661.2	5868.8	6508.7	6814.5	5840.4
32.5°	5574.1	5596.4	5593.3	5554.9	5463.7	5369.6	5626.8	5816.1	6505.6	6917.8	5835.3
35°	5783.7	5809.0	5851.5	5843.4	5748.3	5593.3	5744.2	5893.1	6565.4	7087.9	5890.0
37.5°	6006.5	6044.9	6136.1	6179.6	6117.8	5942.7	6007.5	6113.8	6725.4	7363.3	6028.7
40°	6222.1	6265.7	6431.7	6602.9	6556.3	6376.0	6406.4	6491.5	7009.9	7759.2	6292.0
42.5°	6433.8	6498.6	6742.6	7024.1	7079.8	6936.0	6952.2	7020.0	7432.1	8303.9	6722.3
45°	6686.9	6759.8	7121.3	7468.6	7617.4	7554.7	7623.5	7668.1	7984.0	9023.9	7302.5
47.5°	7058.5	7142.5	7586.0	7981.9	8243.2	8283.7	8422.4	8451.8	8681.6	9862.3	8058.9
50°	7783.5	7806.8	8207.7	8567.2	8943.9	9186.9	9344.8	9367.1	9526.1	10778.6	9003.6
52.5°	8695.8	8711.0	8937.8	9178.8	9607.1	10103.2	10472.8	10504.2	10537.6	11671.7	9936.2
55°	9602.0	9600.0	9749.9	9891.6	10381.7	11102.6	11904.6	11923.8	11683.8	12519.2	10649.0
57.5°	10168.0	10222.7	10450.6	10632.8	11317.3	12241.8	13354.5	13425.4	12887.8	13147.0	11353.7
60°	9987.8	10014.1	10519.4	11193.8	12482.7	13860.8	14821.7	14840.0	13793.0	13773.7	12244.8
62.5°	8509.5	8523.7	9317.5	10707.7	13073.1	15960.9	16591.7	16295.0	14833.9	14643.5	13311.0
65°	5832.3	5924.4	6587.7	8306.0	11988.6	17278.2	19331.6	18840.6	16420.6	15897.1	14275.0
67.5°	3434.6	3415.3	3743.4	5009.1	8805.2	16403.3	22797.6	22309.6	18584.4	16736.5	13992.5
70°	2346.1	2332.9	2458.5	3032.6	4970.6	12724.7	23888.1	24873.3	20495.1	16171.5	12042.3
72.5°	1674.8	1681.8	1867.1	2356.2	3120.7	7413.9	20542.7	22874.6	19896.6	14097.8	9153.5
75°	1137.1	1156.3	1421.6	1933.0	2735.9	3771.8	14577.7	17388.6	16201.8	10246.0	5261.2
77.5°	611.6	632.8	945.7	1557.3	2473.7	2620.5	9377.2	11967.4	10177.2	4606.1	1524.9
80°	255.2	267.3	442.5	1132.0	2137.5	2301.5	5517.4	7257.0	4336.8	908.3	340.2
82.5°	110.4	116.4	184.3	675.4	1597.8	1943.1	2921.2	3491.3	1314.3	199.5	171.1
85°	21.3	22.3	75.9	357.4	1019.6	1096.6	1893.5	1856.0	590.3	86.1	124.5
87.5°	0.0	0.0	18.2	112.4	299.7	597.4	1155.3	1141.1	200.5	41.5	46.6
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°	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2	7193.2
2.5°	7136.5	7066.6	6919.8	6738.5	6599.8	6446.9	6325.4	6171.5	6104.7	6107.7	6071.3
5°	6976.5	6832.7	6507.7	6097.6	5781.7	5455.6	5175.2	4895.7	4730.6	4677.0	4626.4
7.5°	6747.6	6519.8	6001.4	5369.6	4834.9	4312.5	3857.8	3457.9	3204.7	3081.2	3035.6
10°	6489.4	6169.5	5419.2	4586.9	3823.4	3116.6	2527.3	2015.0	1810.4	1671.7	1636.3
12.5°	6262.6	5829.3	4850.1	3783.9	2877.7	2025.1	1463.1	1144.2	1005.5	950.8	941.7
15°	6049.0	5511.3	4302.3	3056.9	1992.7	1246.5	930.5	822.2	789.8	780.7	780.7
17.5°	5847.5	5208.6	3766.7	2341.0	1318.3	873.8	770.6	746.3	736.1	735.1	736.1
20°	5636.9	4905.8	3240.2	1715.3	920.4	740.2	711.8	698.7	695.6	695.6	695.6
22.5°	5435.4	4603.1	2727.8	1225.2	738.2	675.4	661.2	652.1	649.0	648.0	646.0
25°	5242.0	4315.5	2227.6	865.7	648.0	618.7	606.5	594.4	585.3	580.2	577.2
27.5°	5083.0	4059.3	1761.8	694.6	585.3	559.9	544.8	526.5	504.3	494.1	490.1
30°	4956.4	3825.4	1357.8	586.3	526.5	501.2	477.9	446.5	414.1	396.9	395.9
32.5°	4857.2	3595.6	1030.8	518.4	473.9	442.5	409.1	369.6	332.1	312.9	311.9
35°	4808.6	3393.1	787.8	468.8	427.3	387.8	346.3	302.8	266.3	248.1	246.1
37.5°	4841.0	3221.9	614.6	427.3	387.8	342.2	293.6	248.1	215.7	199.5	198.5
40°	4959.5	3112.6	499.2	391.9	354.4	298.7	246.1	203.5	176.2	163.0	162.0
42.5°	5211.6	3072.1	426.3	362.5	322.0	258.2	204.5	168.1	142.8	133.7	131.6
45°	5632.8	3131.8	376.7	334.1	288.6	219.7	169.1	137.7	115.4	108.3	107.3
47.5°	6193.8	3288.8	341.2	306.8	258.2	185.3	140.7	111.4	94.2	87.1	86.1
50°	6916.7	3537.9	311.9	279.5	229.8	156.9	116.4	88.1	72.9	67.8	67.8
52.5°	7703.5	3834.5	285.5	254.2	201.5	130.6	94.2	67.8	57.7	51.6	51.6
55°	8353.6	4093.7	257.2	234.9	167.1	108.3	71.9	51.6	42.5	39.5	39.5
57.5°	9002.6	4370.2	224.8	201.5	133.7	88.1	54.7	38.5	31.4	29.4	29.4
60°	9844.0	4708.4	193.4	164.0	105.3	66.8	40.5	27.3	23.3	22.3	22.3
62.5°	10769.5	4906.8	165.0	131.6	82.0	49.6	29.4	18.2	17.2	17.2	16.2
65°	11335.5	4626.4	138.7	105.3	63.8	37.5	19.2	13.2	15.2	14.2	12.2
67.5°	10613.6	3621.9	113.4	82.0	49.6	28.4	12.2	9.1	16.2	13.2	10.1
70°	8787.9	2535.4	88.1	57.7	39.5	24.3	8.1	6.1	17.2	13.2	8.1
72.5°	6576.5	1697.0	69.9	38.5	29.4	21.3	7.1	3.0	15.2	11.1	7.1
75°	3593.5	683.5	55.7	24.3	18.2	15.2	5.1	2.0	10.1	8.1	5.1
77.5°	945.7	180.2	40.5	16.2	10.1	6.1	3.0	1.0	5.1	4.1	2.0
80°	241.0	69.9	26.3	11.1	7.1	3.0	0.0	0.0	1.0	0.0	0.0
82.5°	128.6	29.4	16.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.2	19.2	9.1	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.5	6.1	3.0	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)