

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: P324954

Luminaire Tested: **GAN-SA0A-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30005 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

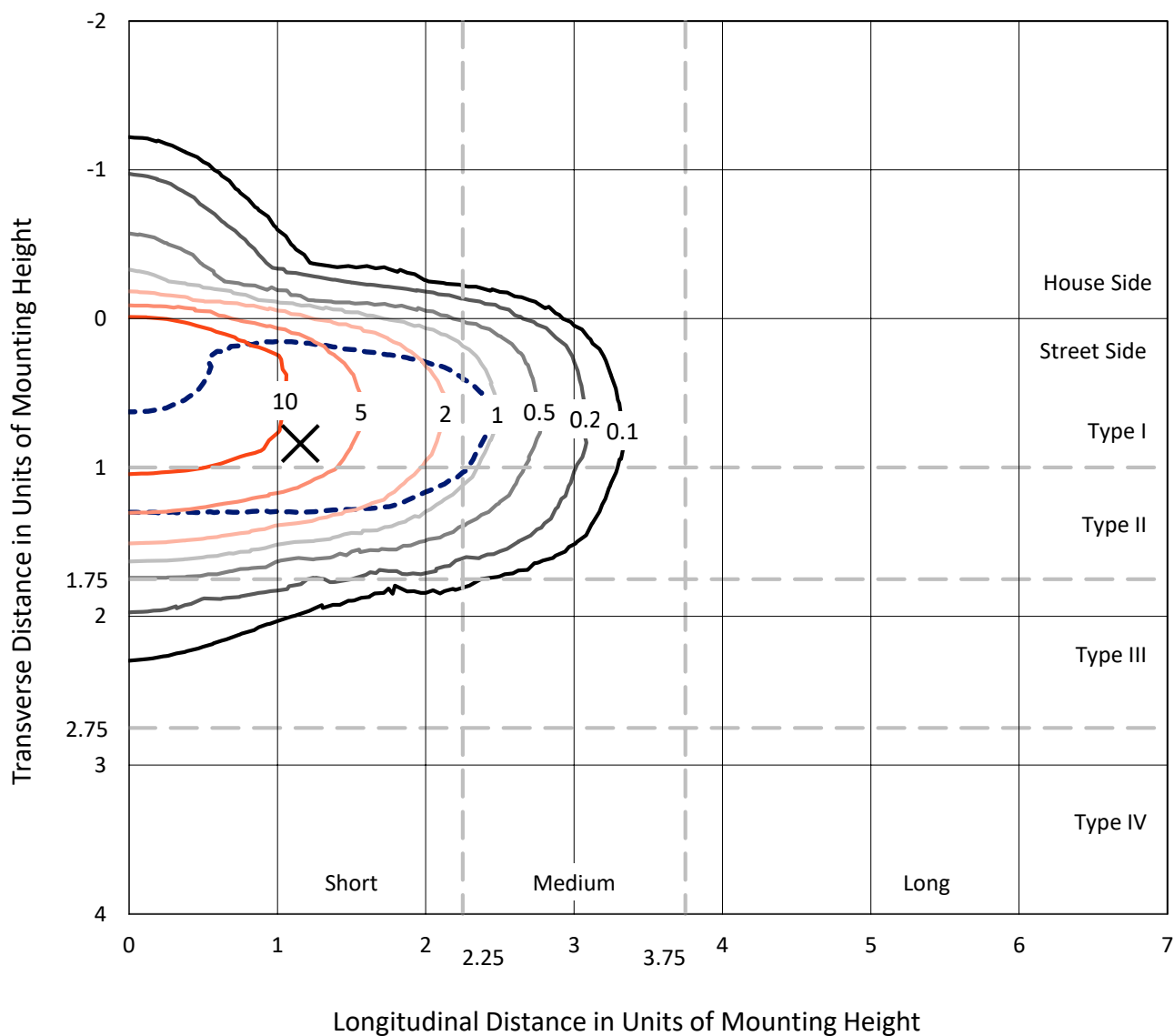
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

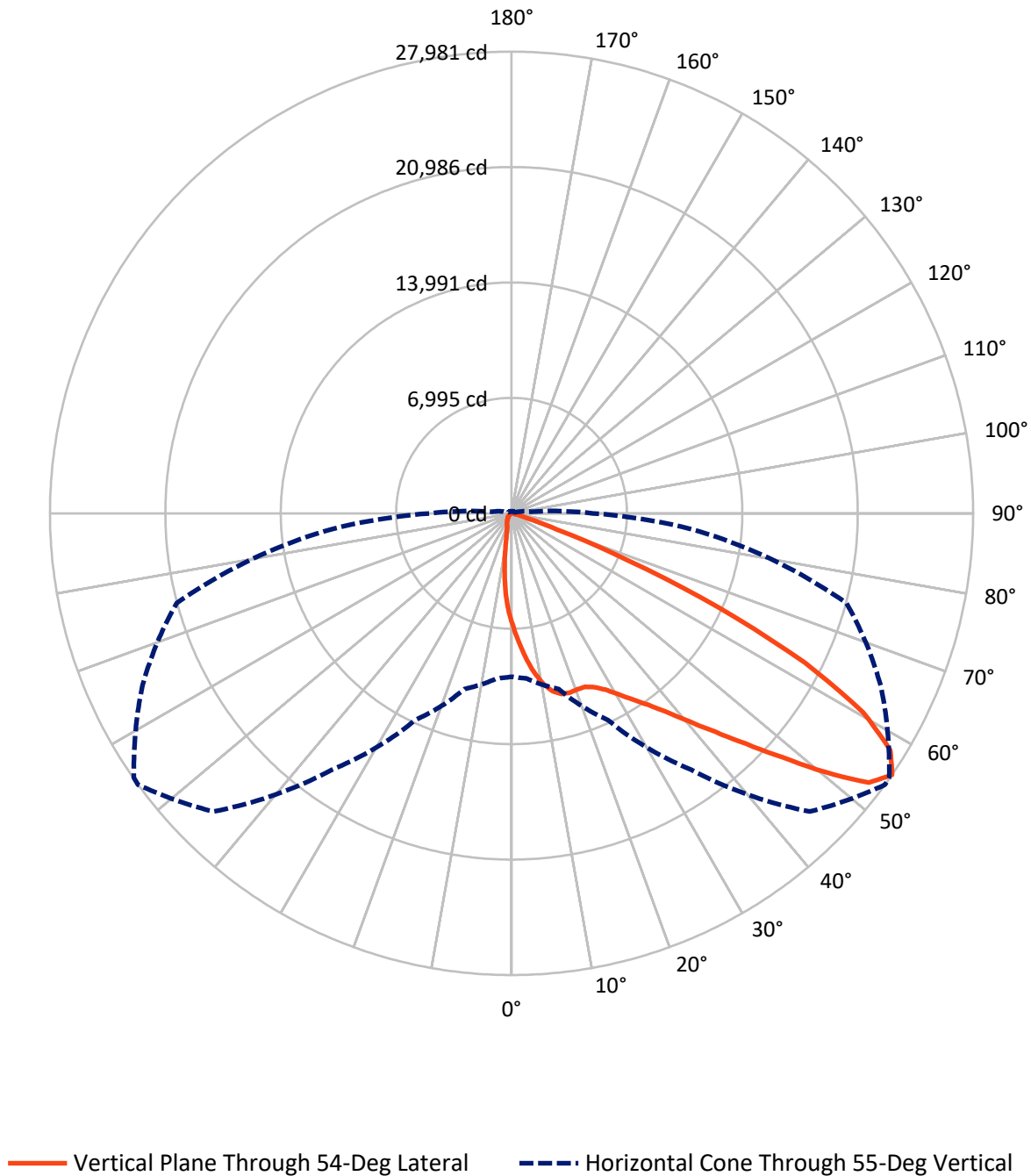
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1497.0	0.0	1497.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28508.0	0.0	28508.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	30005.0	0.0	30005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.8	2.1
10°-20°	1697.2	5.7
20°-30°	2897.6	9.7
30°-40°	4650.2	15.5
40°-50°	7431.0	24.8
50°-60°	7962.5	26.5
60°-70°	4088.2	13.6
70°-80°	619.3	2.1
80°-90°	40.3	0.1
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°	30005.0	100.0
0°-180°	30005.0	100.0

Coefficient of Utilization



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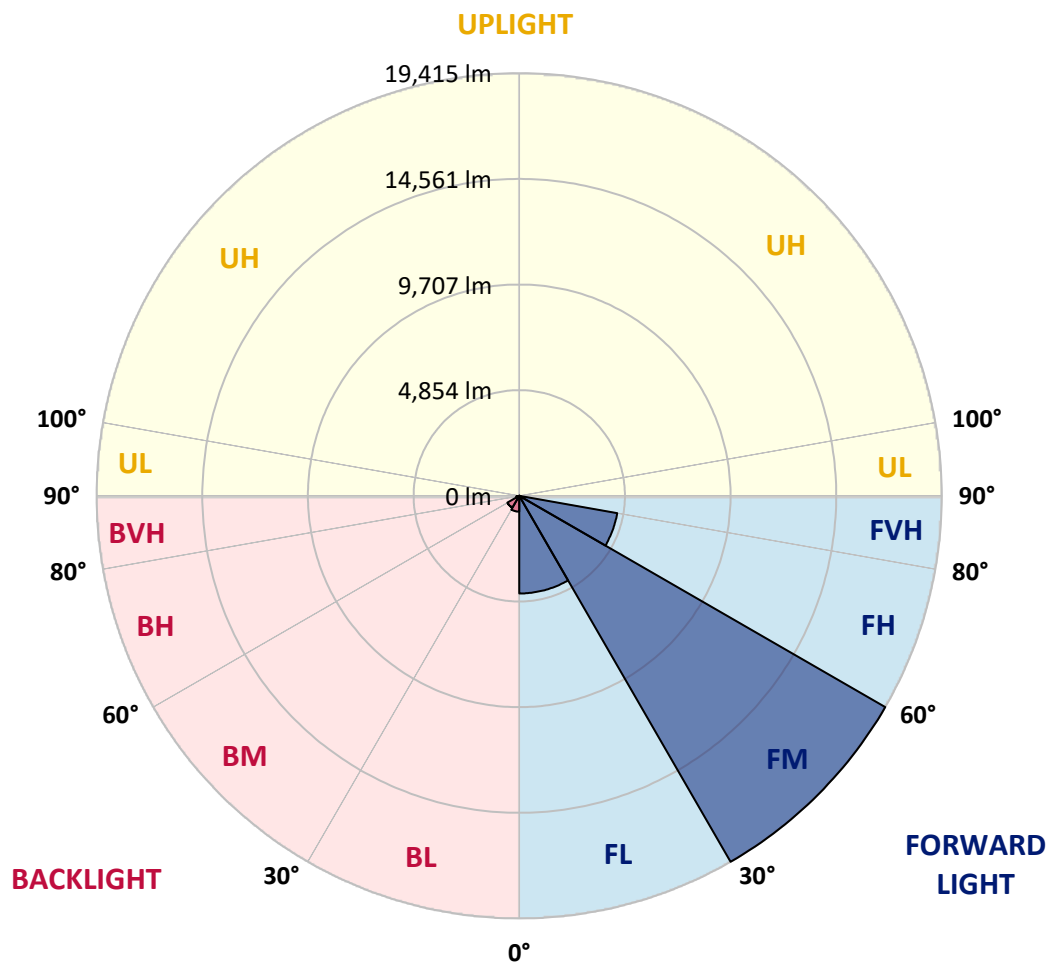
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4485.2	14.9			
FM	(30°-60°)	19414.6	64.7			
FH	(60°-80°)	4569.5	15.2			G2/5000
FVH	(80°-90°)	38.7	0.1			G1/100
BL	(0°-30°)	728.4	2.4	B2/1000		
BM	(30°-60°)	629.1	2.1	B1/1000		
BH	(60°-80°)	138.0	0.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9
2.5°	8432.9	8307.2	8311.1	8254.1	8045.5	7882.2	7712.5	7672.3	7408.0	7130.7	6863.7
5°	9890.7	9798.7	9776.7	9666.5	9376.3	9069.2	8740.0	8663.6	8146.6	7579.0	7020.5
7.5°	10639.7	10640.9	10622.8	10582.6	10401.2	10103.2	9701.5	9621.2	8917.6	8066.2	7183.8
10°	10422.0	10471.2	10572.3	10705.7	10844.4	10806.8	10504.9	10432.3	9667.8	8582.0	7365.2
12.5°	9914.0	9920.5	10033.2	10252.2	10651.3	11060.8	11066.0	11041.3	10384.4	9121.0	7564.8
15°	9661.3	9686.0	9727.4	9868.7	10247.0	10902.7	11371.8	11406.8	11041.3	9693.7	7777.3
17.5°	9827.2	9862.2	9827.2	9844.0	10063.0	10652.6	11424.9	11514.3	11615.4	10260.0	7978.1
20°	10276.8	10309.2	10247.0	10178.4	10221.1	10580.0	11387.3	11507.8	12065.0	10762.7	8146.6
22.5°	10883.3	10896.2	10801.6	10688.9	10657.8	10826.2	11418.4	11542.8	12425.2	11217.6	8252.8
25°	11550.6	11562.2	11444.3	11314.8	11240.9	11309.6	11673.7	11767.0	12742.7	11651.7	8313.7
27.5°	12277.5	12287.9	12140.2	11980.8	11895.3	11897.9	12094.8	12194.6	13080.9	12146.6	8363.0
30°	13045.9	13040.7	12904.7	12683.1	12574.3	12571.7	12701.2	12802.3	13570.7	12781.6	8430.3
32.5°	13908.9	13898.5	13705.5	13430.8	13307.7	13325.8	13441.1	13499.4	14178.4	13458.0	8550.9
35°	15045.3	15015.5	14723.9	14383.2	14156.4	14149.9	14247.1	14293.8	14953.3	14276.9	8751.7
37.5°	16519.9	16492.7	16097.5	15602.5	15283.7	15164.5	15279.8	15339.4	16058.6	15327.8	9074.3
40°	17973.8	17946.6	17712.0	17258.5	16767.4	16481.0	16571.7	16635.2	17438.6	16602.8	9481.2
42.5°	18976.7	19000.0	19081.7	19119.2	18659.2	18058.0	18099.5	18165.5	18888.6	17966.0	9946.4
45°	19241.0	19291.6	19752.9	20658.6	20831.0	20361.9	19927.8	19964.1	20361.9	19329.2	10411.6
47.5°	18446.7	18540.0	19430.2	21114.7	22573.8	22905.5	22084.0	22036.0	21775.6	20431.9	10742.0
50°	16641.7	16727.2	17880.5	20372.3	23102.5	25333.8	24667.8	24526.5	23015.6	21091.4	10858.6
52.5°	14029.4	14133.1	15069.9	18034.7	22106.0	26417.1	27114.2	26996.3	23925.3	21143.2	10878.1
55°	9907.5	10033.2	11024.5	13822.1	18948.2	25555.4	27981.1	27946.1	24680.7	21005.9	10919.5
57.5°	5568.0	5658.7	6727.7	8860.5	13877.8	22258.9	27075.3	27307.3	25136.8	20767.5	10981.7
60°	2472.3	2497.0	3050.3	4410.8	8124.5	17011.0	24482.5	24873.8	24745.5	20448.7	11086.7
62.5°	1370.9	1350.2	1350.2	1833.5	3531.0	10530.8	19964.1	20610.7	23075.3	20071.6	11091.9
65°	1074.2	1054.8	999.0	1006.8	1345.0	4673.9	13824.7	14974.0	19903.2	18966.3	10718.7
67.5°	910.9	894.1	838.4	816.3	835.8	1542.0	7595.9	8789.3	15102.3	16093.6	9284.3
70°	769.7	758.0	729.5	702.3	653.1	761.9	2906.4	3717.6	9306.3	10705.7	6337.7
72.5°	619.4	614.2	624.6	601.2	541.6	507.9	993.9	1203.8	4180.2	4777.5	2611.0
75°	533.9	531.3	536.5	513.1	445.7	353.7	505.4	552.0	1179.2	1168.8	528.7
77.5°	347.3	351.2	444.5	434.1	383.6	235.8	261.7	282.5	357.6	268.2	160.7
80°	221.6	219.0	225.5	360.2	344.7	180.1	130.9	137.4	172.3	132.2	77.7
82.5°	134.8	132.2	147.7	168.5	173.6	125.7	80.3	81.6	107.5	85.5	41.5
85°	11.7	15.5	89.4	82.9	59.6	38.9	38.9	41.5	57.0	50.5	23.3
87.5°	0.0	0.0	15.5	23.3	13.0	14.3	14.3	15.5	22.0	22.0	11.7
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°	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9	6719.9
2.5°	6725.1	6590.3	6318.2	6056.5	5834.9	5621.1	5377.5	5136.5	5023.7	4978.4	4931.7
5°	6736.8	6459.5	5898.4	5333.4	4747.7	4220.4	3770.7	3309.4	3078.8	2977.7	2931.1
7.5°	6752.3	6329.9	5422.8	4474.3	3531.0	2815.7	2191.2	1789.5	1615.8	1588.6	1521.2
10°	6754.9	6173.1	4870.8	3525.8	2367.4	1697.5	1306.1	1098.8	1022.4	1009.4	987.4
12.5°	6760.1	5987.8	4257.9	2611.0	1578.3	1135.1	944.6	875.9	855.2	853.9	853.9
15°	6775.6	5793.4	3621.7	1881.5	1133.8	899.3	829.3	802.1	794.3	798.2	796.9
17.5°	6775.6	5564.1	2997.1	1402.0	916.1	808.6	769.7	751.6	749.0	752.8	754.1
20°	6726.4	5285.5	2424.4	1091.0	812.5	750.3	715.3	698.4	691.9	694.5	695.8
22.5°	6608.5	4943.4	1957.9	903.2	743.8	697.1	659.6	633.6	623.3	624.6	624.6
25°	6424.5	4537.8	1531.6	781.4	688.1	640.1	596.1	566.3	559.8	558.5	561.1
27.5°	6188.6	4089.5	1219.3	688.1	622.0	576.6	532.6	507.9	502.8	504.1	505.4
30°	5956.7	3624.3	961.5	609.0	548.1	505.4	471.7	460.0	460.0	463.9	465.2
32.5°	5744.2	3177.3	760.6	540.3	482.0	443.2	423.7	422.4	428.9	431.5	432.8
35°	5561.5	2763.9	629.7	487.2	430.2	396.5	390.0	395.2	403.0	408.2	409.5
37.5°	5431.9	2394.6	550.7	443.2	390.0	362.8	361.5	371.9	382.3	393.9	396.5
40°	5377.5	2082.3	496.3	404.3	357.6	336.9	333.0	347.3	366.7	383.6	386.1
42.5°	5332.1	1827.0	449.6	366.7	331.7	301.9	300.6	318.8	342.1	358.9	362.8
45°	5293.3	1622.3	406.9	326.5	298.0	259.2	263.0	286.4	304.5	322.6	326.5
47.5°	5212.9	1453.9	360.2	283.8	246.2	221.6	229.4	250.1	264.3	291.6	295.4
50°	5069.1	1316.5	312.3	231.9	200.8	191.8	203.4	217.7	235.8	259.2	261.7
52.5°	4971.9	1212.9	270.8	194.4	165.9	168.5	180.1	185.3	195.7	204.7	202.1
55°	4916.2	1155.8	237.1	168.5	141.2	149.0	151.6	145.1	139.9	130.9	127.0
57.5°	4909.7	1104.0	211.2	146.4	124.4	128.3	119.2	97.2	79.0	68.7	66.1
60°	4899.3	1040.5	190.5	123.1	110.1	105.0	85.5	53.1	37.6	35.0	35.0
62.5°	4786.6	942.0	174.9	103.7	93.3	79.0	49.2	24.6	20.7	22.0	22.0
65°	4427.7	804.7	159.4	84.2	73.9	57.0	24.6	14.3	7.8	9.1	9.1
67.5°	3764.2	641.4	142.5	64.8	55.7	36.3	14.3	6.5	0.0	0.0	0.0
70°	2520.3	397.8	120.5	45.4	36.3	22.0	10.4	1.3	0.0	0.0	0.0
72.5°	966.7	215.1	97.2	27.2	23.3	15.5	6.5	0.0	0.0	0.0	0.0
75°	217.7	141.2	67.4	19.4	16.8	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	82.9	102.4	38.9	13.0	11.7	6.5	0.0	0.0	0.0	0.0	0.0
80°	40.2	60.9	18.1	7.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	23.3	7.8	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	11.7	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	1.3	1.3	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)