

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: P324940

Luminaire Tested: **GAN-SA6D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324940
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-SA6D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 27926 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

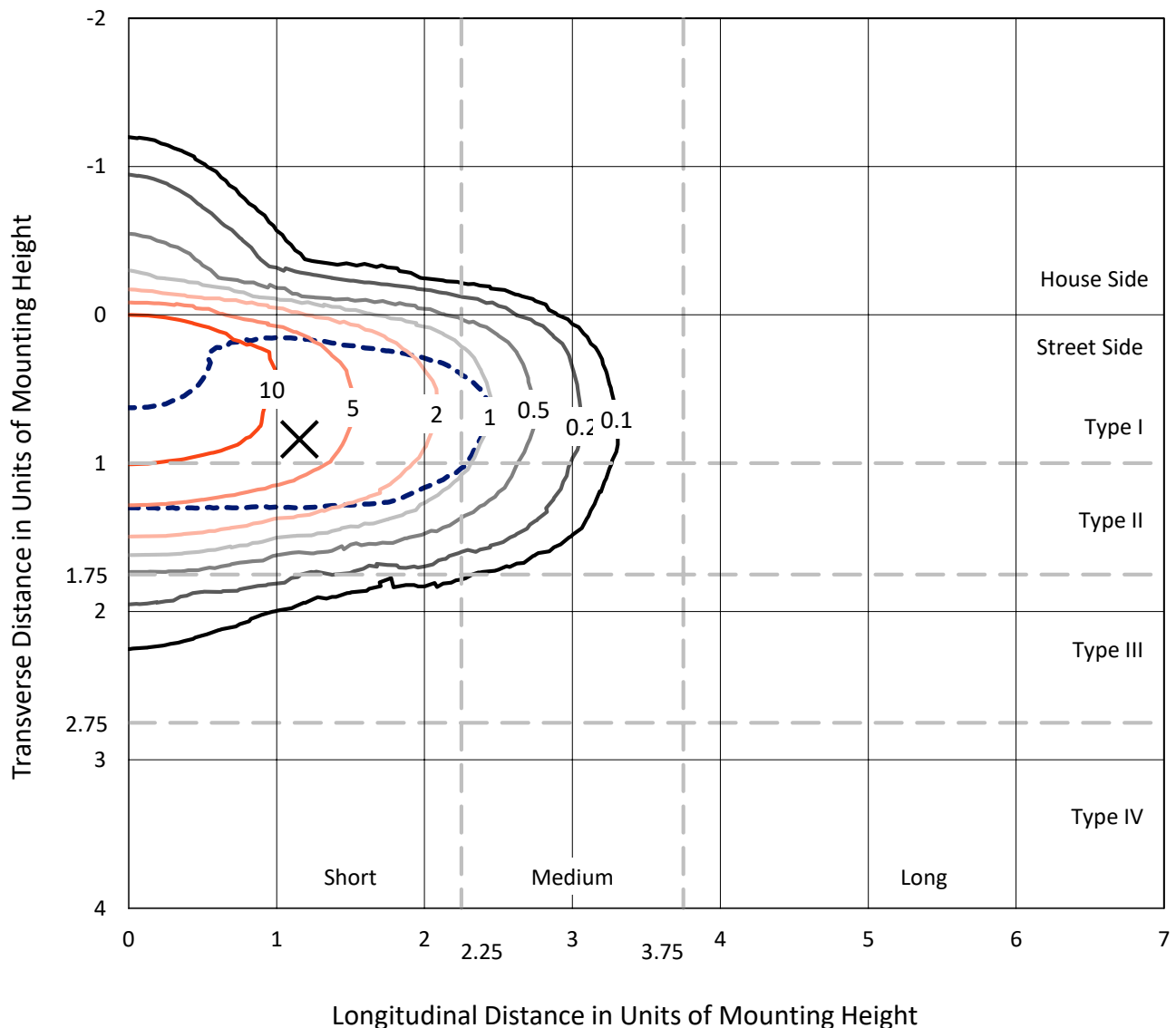
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

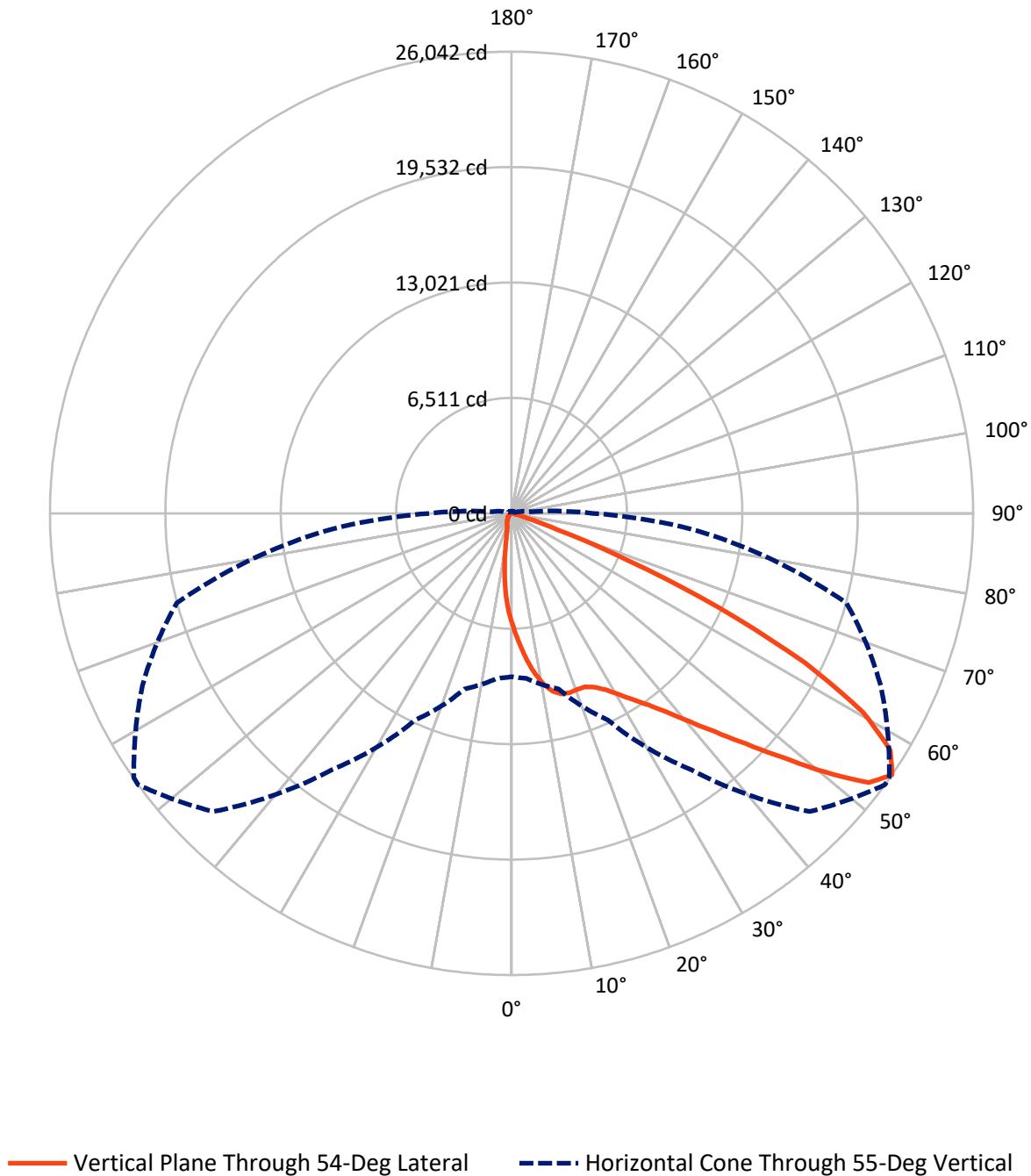
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	1393.3	0.0	1393.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26532.7	0.0	26532.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	27926.0	0.0	27926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.9	2.1
10°-20°	1579.6	5.7
20°-30°	2696.8	9.7
30°-40°	4328.0	15.5
40°-50°	6916.1	24.8
50°-60°	7410.8	26.5
60°-70°	3804.9	13.6
70°-80°	576.4	2.1
80°-90°	37.5	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°	27926.0	100.0
0°-180°	27926.0	100.0

Coefficient of Utilization



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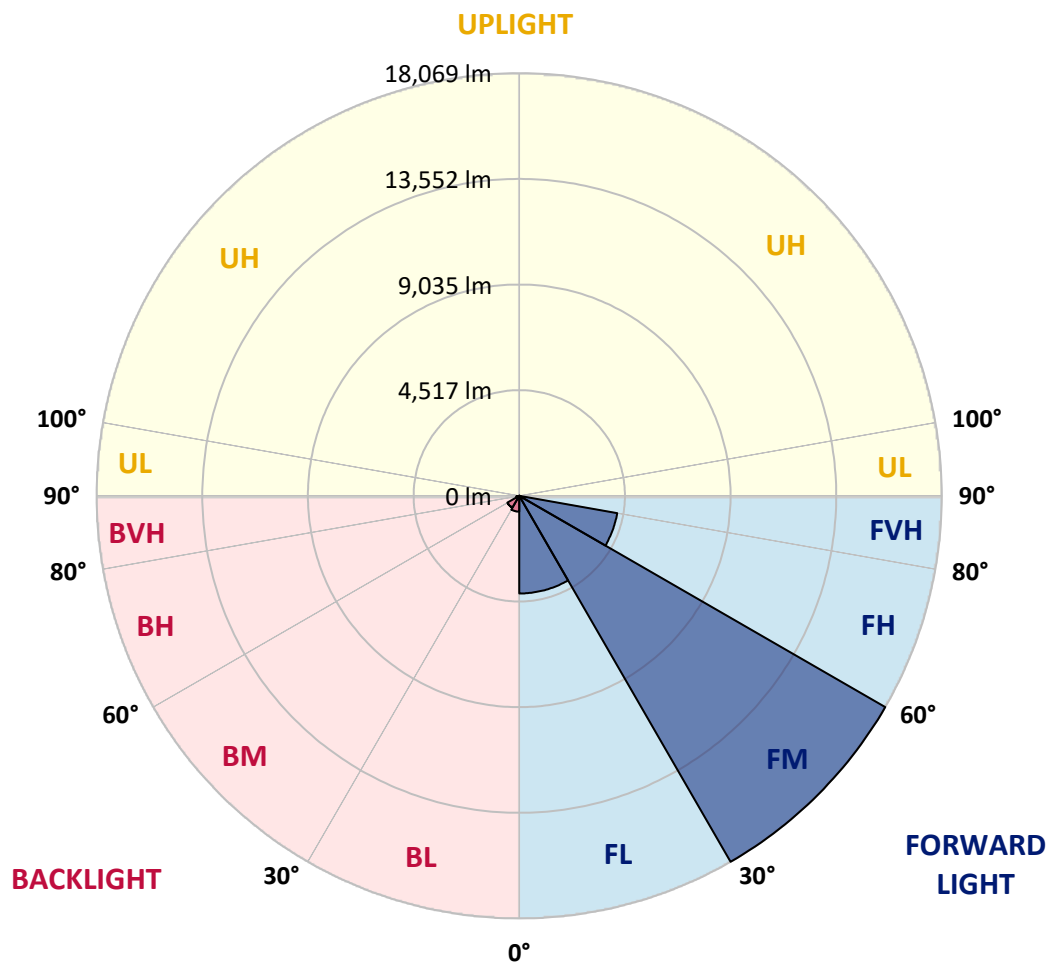
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4174.5	14.9			
FM	(30°-60°)	18069.3	64.7			
FH	(60°-80°)	4252.9	15.2			G2/5000
FVH	(80°-90°)	36.0	0.1			G1/100
BL	(0°-30°)	677.9	2.4	B2/1000		
BM	(30°-60°)	585.5	2.1	B1/1000		
BH	(60°-80°)	128.4	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3
2.5°	7848.6	7731.7	7735.3	7682.2	7488.0	7336.1	7178.1	7140.7	6894.7	6636.6	6388.2
5°	9205.4	9119.8	9099.3	8996.7	8726.6	8440.8	8134.5	8063.3	7582.1	7053.9	6534.1
7.5°	9902.4	9903.7	9886.8	9849.4	9680.5	9403.2	9029.3	8954.5	8299.7	7507.3	6686.1
10°	9699.8	9745.7	9839.7	9964.0	10093.0	10058.0	9777.0	9709.5	8997.9	7987.3	6854.9
12.5°	9227.1	9233.1	9338.0	9541.9	9913.3	10294.4	10299.2	10276.3	9664.9	8489.0	7040.6
15°	8991.9	9014.8	9053.4	9184.9	9537.0	10147.3	10583.8	10616.4	10276.3	9022.1	7238.4
17.5°	9146.3	9178.8	9146.3	9162.0	9365.8	9914.5	10633.3	10716.5	10810.6	9549.1	7425.3
20°	9564.8	9594.9	9537.0	9473.1	9512.9	9847.0	10598.3	10710.5	11229.0	10017.0	7582.1
22.5°	10129.2	10141.2	10053.2	9948.3	9919.3	10076.1	10627.3	10743.0	11564.3	10440.3	7681.0
25°	10750.3	10761.1	10651.4	10530.8	10462.0	10525.9	10864.8	10951.7	11859.8	10844.3	7737.7
27.5°	11426.8	11436.5	11299.0	11150.7	11071.1	11073.5	11256.8	11349.6	12174.5	11305.0	7783.5
30°	12142.0	12137.2	12010.5	11804.3	11703.0	11700.6	11821.2	11915.3	12630.4	11896.0	7846.2
32.5°	12945.2	12935.5	12755.8	12500.2	12385.6	12402.5	12509.8	12564.1	13196.0	12525.5	7958.4
35°	14002.8	13975.1	13703.7	13386.6	13175.5	13169.5	13259.9	13303.4	13917.2	13287.7	8145.3
37.5°	15375.3	15349.9	14982.1	14521.4	14224.7	14113.8	14221.1	14276.6	14945.9	14265.7	8445.6
40°	16728.4	16703.1	16484.8	16062.7	15605.6	15339.1	15423.5	15482.6	16230.3	15452.4	8824.3
42.5°	17661.8	17683.5	17759.5	17794.5	17366.4	16806.8	16845.4	16906.9	17579.8	16721.2	9257.2
45°	17907.9	17954.9	18384.2	19227.2	19387.6	18951.0	18547.0	18580.8	18951.0	17989.9	9690.2
47.5°	17168.6	17255.4	18083.9	19651.7	21009.7	21318.4	20553.8	20509.2	20266.8	19016.2	9997.7
50°	15488.6	15568.2	16641.6	18960.7	21501.7	23578.5	22958.6	22827.1	21420.9	19630.0	10106.3
52.5°	13057.3	13153.8	14025.8	16785.1	20574.3	24586.7	25235.5	25125.8	22267.5	19678.3	10124.3
55°	9221.1	9338.0	10260.6	12864.4	17635.3	23784.7	26042.3	26009.7	22970.6	19550.4	10162.9
57.5°	5182.2	5266.6	6261.5	8246.6	12916.2	20716.6	25199.3	25415.2	23395.1	19328.5	10220.8
60°	2301.0	2324.0	2838.9	4105.2	7561.6	15832.3	22786.1	23150.3	23030.9	19031.8	10318.5
62.5°	1275.9	1256.6	1256.6	1706.5	3286.3	9801.1	18580.8	19182.6	21476.4	18680.9	10323.3
65°	999.8	981.7	929.8	937.1	1251.8	4350.0	12866.8	13936.5	18524.1	17652.2	9976.0
67.5°	847.8	832.1	780.3	759.8	777.9	1435.1	7069.6	8180.3	14055.9	14978.5	8641.0
70°	716.4	705.5	679.0	653.7	607.8	709.1	2705.1	3460.0	8661.5	9964.0	5898.5
72.5°	576.5	571.6	581.3	559.6	504.1	472.8	925.0	1120.4	3890.5	4446.5	2430.1
75°	496.9	494.5	499.3	477.6	414.9	329.2	470.3	513.8	1097.5	1087.8	492.0
77.5°	323.2	326.8	413.7	404.0	357.0	219.5	243.6	262.9	332.9	249.6	149.5
80°	206.2	203.8	209.8	335.3	320.8	167.6	121.8	127.8	160.4	123.0	72.4
82.5°	125.4	123.0	137.5	156.8	161.6	117.0	74.8	76.0	100.1	79.6	38.6
85°	10.9	14.5	83.2	77.2	55.5	36.2	36.2	38.6	53.1	47.0	21.7
87.5°	0.0	0.0	14.5	21.7	12.1	13.3	13.3	14.5	20.5	20.5	10.9
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°	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3	6254.3
2.5°	6259.1	6133.7	5880.4	5636.8	5430.6	5231.6	5004.9	4780.6	4675.7	4633.4	4590.0
5°	6270.0	6011.9	5489.7	4963.9	4418.8	3927.9	3509.5	3080.1	2865.5	2771.4	2728.0
7.5°	6284.5	5891.3	5047.1	4164.3	3286.3	2620.6	2039.3	1665.5	1503.9	1478.6	1415.8
10°	6286.9	5745.4	4533.3	3281.5	2203.4	1579.9	1215.6	1022.7	951.5	939.5	919.0
12.5°	6291.7	5572.9	3962.9	2430.1	1468.9	1056.5	879.2	815.3	796.0	794.8	794.8
15°	6306.2	5392.0	3370.8	1751.1	1055.2	837.0	771.8	746.5	739.3	742.9	741.7
17.5°	6306.2	5178.6	2789.5	1304.9	852.6	752.5	716.4	699.5	697.1	700.7	701.9
20°	6260.3	4919.3	2256.4	1015.4	756.2	698.3	665.7	650.0	644.0	646.4	647.6
22.5°	6150.6	4600.9	1822.3	840.6	692.2	648.8	613.9	589.7	580.1	581.3	581.3
25°	5979.3	4223.4	1425.5	727.2	640.4	595.8	554.8	527.0	521.0	519.8	522.2
27.5°	5759.8	3806.1	1134.8	640.4	578.9	536.7	495.7	472.8	467.9	469.1	470.3
30°	5544.0	3373.2	894.9	566.8	510.1	470.3	439.0	428.1	428.1	431.7	433.0
32.5°	5346.2	2957.1	707.9	502.9	448.6	412.5	394.4	393.2	399.2	401.6	402.8
35°	5176.1	2572.4	586.1	453.5	400.4	369.0	363.0	367.8	375.1	379.9	381.1
37.5°	5055.5	2228.7	512.5	412.5	363.0	337.7	336.5	346.1	355.8	366.6	369.0
40°	5004.9	1938.0	461.9	376.3	332.9	313.6	309.9	323.2	341.3	357.0	359.4
42.5°	4962.7	1700.5	418.5	341.3	308.7	281.0	279.8	296.7	318.4	334.1	337.7
45°	4926.5	1509.9	378.7	303.9	277.4	241.2	244.8	266.5	283.4	300.3	303.9
47.5°	4851.7	1353.1	335.3	264.1	229.1	206.2	213.5	232.8	246.0	271.3	275.0
50°	4717.9	1225.3	290.6	215.9	186.9	178.5	189.3	202.6	219.5	241.2	243.6
52.5°	4627.4	1128.8	252.1	180.9	154.4	156.8	167.6	172.5	182.1	190.5	188.1
55°	4575.6	1075.7	220.7	156.8	131.5	138.7	141.1	135.1	130.2	121.8	118.2
57.5°	4569.5	1027.5	196.6	136.3	115.8	119.4	111.0	90.4	73.6	63.9	61.5
60°	4559.9	968.4	177.3	114.6	102.5	97.7	79.6	49.4	35.0	32.6	32.6
62.5°	4455.0	876.8	162.8	96.5	86.8	73.6	45.8	22.9	19.3	20.5	20.5
65°	4120.9	748.9	148.3	78.4	68.7	53.1	22.9	13.3	7.2	8.4	8.4
67.5°	3503.4	597.0	132.7	60.3	51.9	33.8	13.3	6.0	0.0	0.0	0.0
70°	2345.7	370.2	112.2	42.2	33.8	20.5	9.6	1.2	0.0	0.0	0.0
72.5°	899.7	200.2	90.4	25.3	21.7	14.5	6.0	0.0	0.0	0.0	0.0
75°	202.6	131.5	62.7	18.1	15.7	9.6	2.4	0.0	0.0	0.0	0.0
77.5°	77.2	95.3	36.2	12.1	10.9	6.0	0.0	0.0	0.0	0.0	0.0
80°	37.4	56.7	16.9	7.2	6.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.3	21.7	7.2	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	10.9	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.6	1.2	1.2	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)