

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: P324741

Luminaire Tested: **GAN-SA7D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324741
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-SA7D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 37572 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

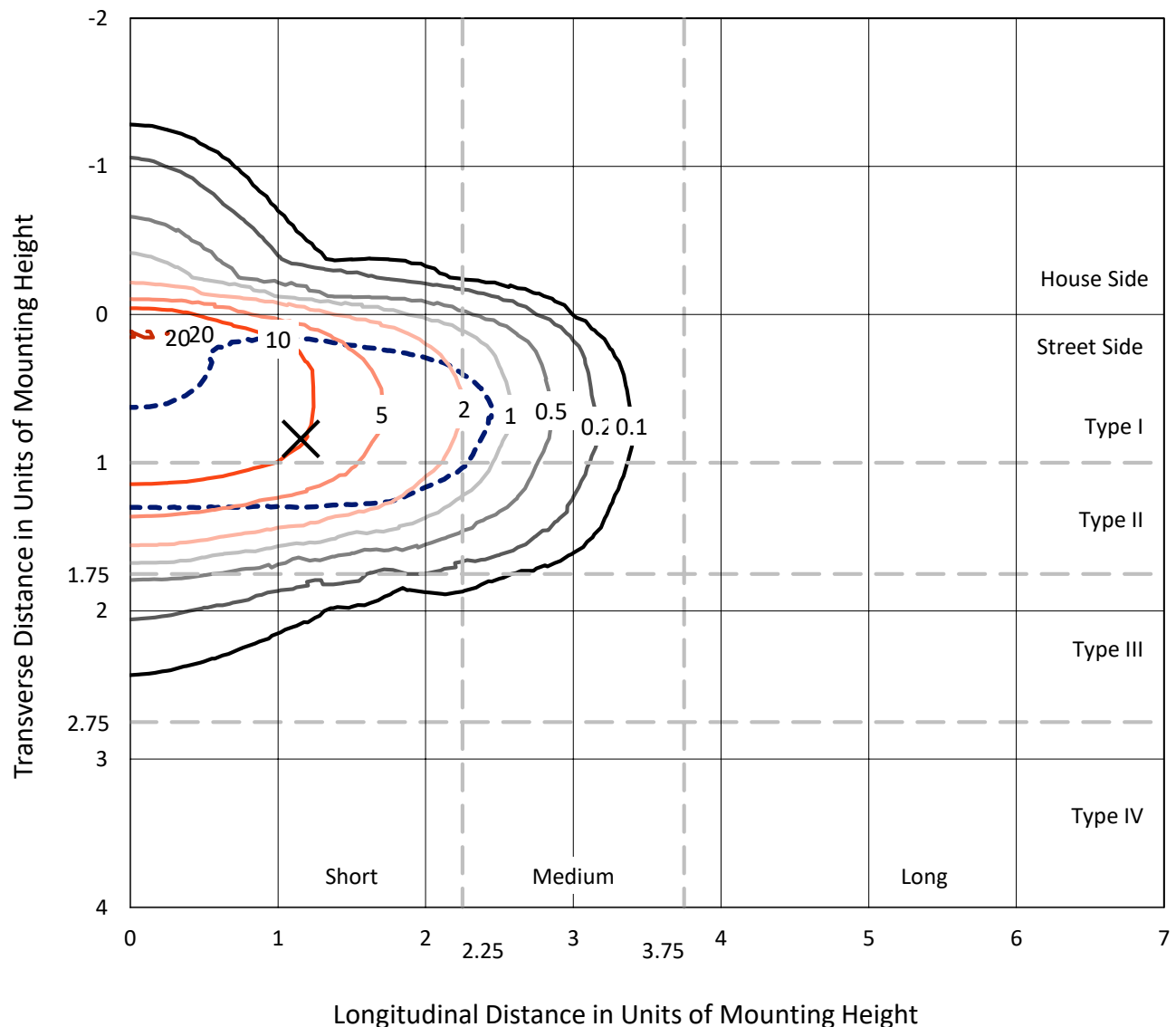
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

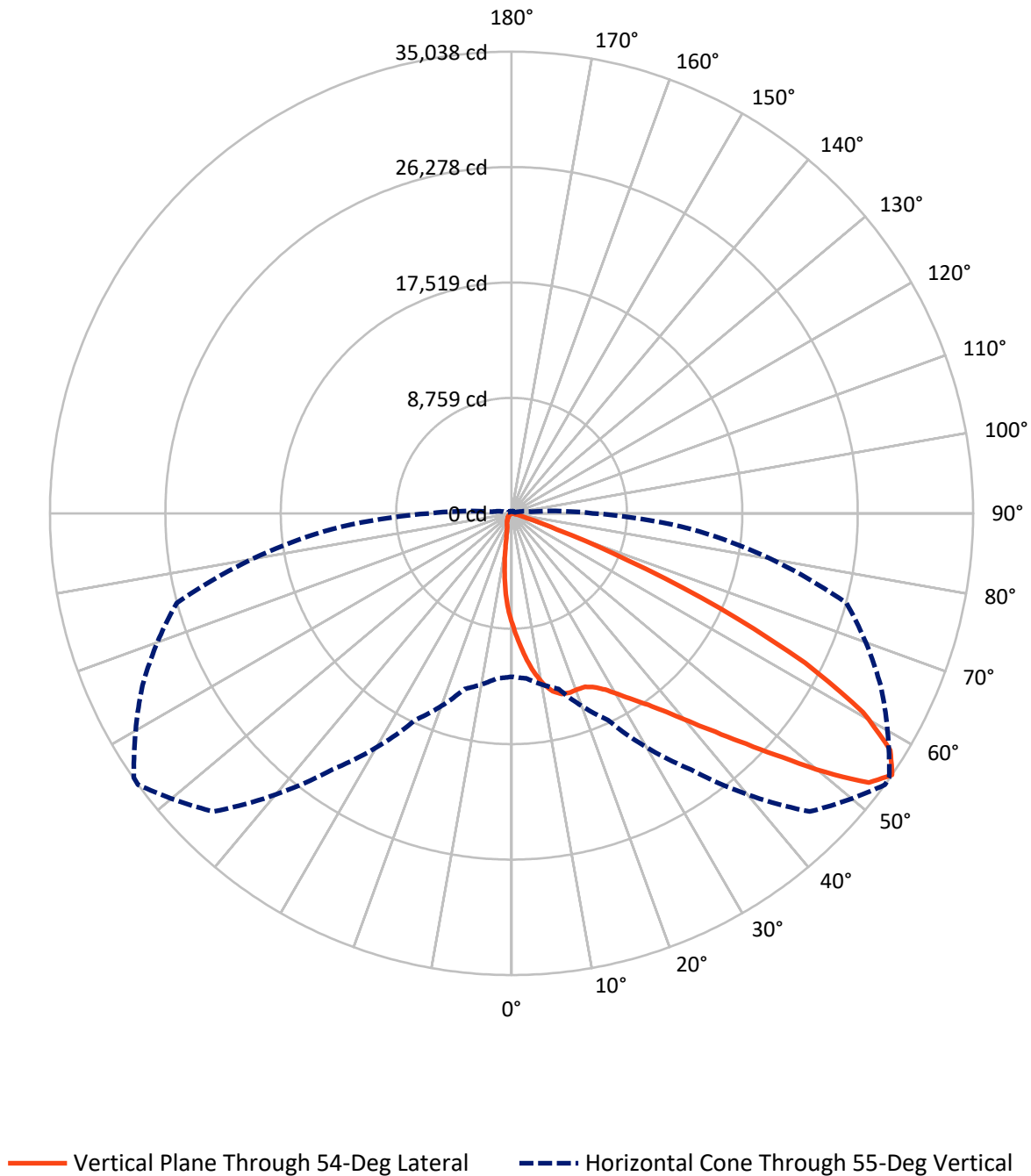
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 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	1874.6	0.0	1874.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35697.4	0.0	35697.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	37572.0	0.0	37572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.9	2.1
10°-20°	2125.2	5.7
20°-30°	3628.4	9.7
30°-40°	5822.9	15.5
40°-50°	9305.0	24.8
50°-60°	9970.6	26.5
60°-70°	5119.2	13.6
70°-80°	775.4	2.1
80°-90°	50.5	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°	37572.0	100.0
0°-180°	37572.0	100.0

Coefficient of Utilization



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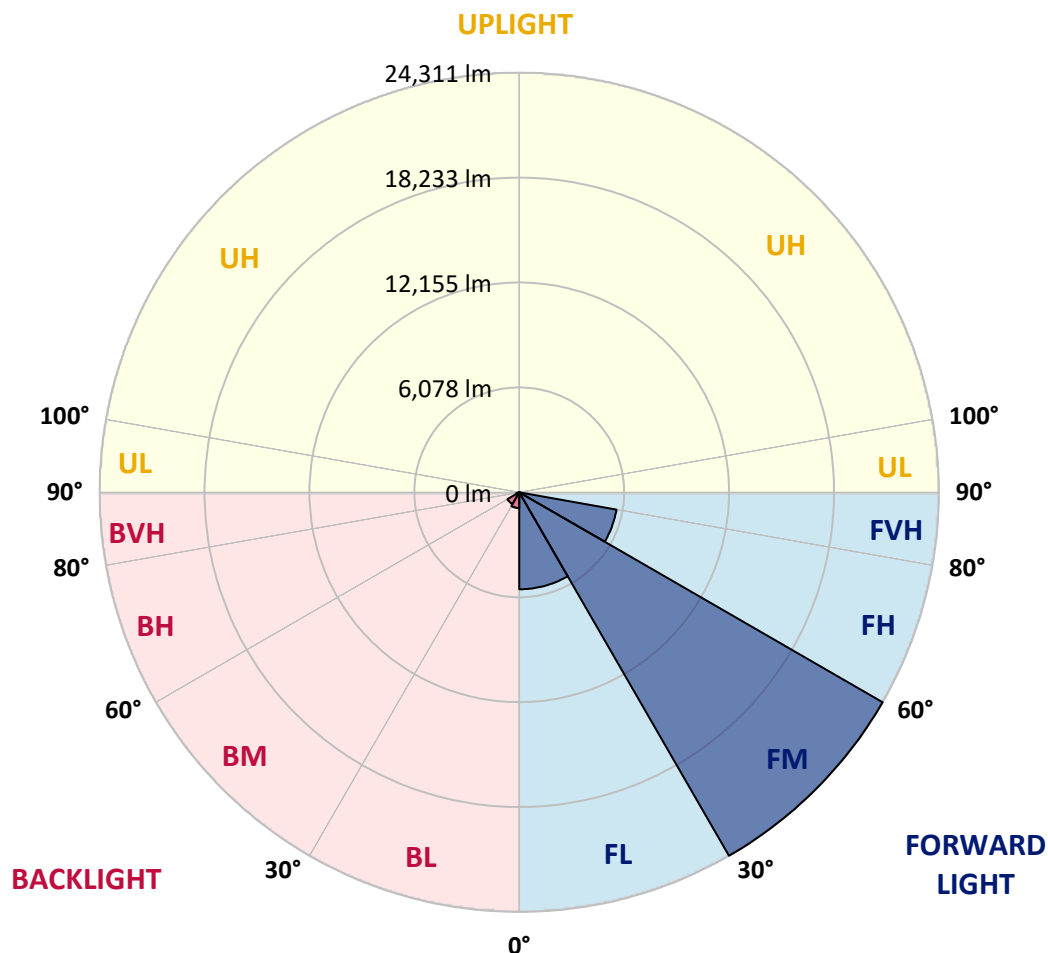
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5616.4	14.9			
FM	(30°-60°)	24310.7	64.7			
FH	(60°-80°)	5721.9	15.2			G3/7500
FVH	(80°-90°)	48.5	0.1			G1/100
BL	(0°-30°)	912.0	2.4	B2/1000		
BM	(30°-60°)	787.7	2.1	B1/1000		
BH	(60°-80°)	172.7	0.5	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6
2.5°	10559.7	10402.3	10407.1	10335.7	10074.5	9870.1	9657.5	9607.2	9276.2	8929.0	8594.7
5°	12385.0	12269.8	12242.2	12104.3	11740.9	11356.3	10944.2	10848.5	10201.1	9490.4	8791.1
7.5°	13322.9	13324.5	13301.8	13251.5	13024.3	12651.1	12148.1	12047.5	11166.5	10100.5	8995.5
10°	13050.3	13111.9	13238.5	13405.6	13579.2	13532.2	13154.1	13063.3	12106.0	10746.2	9222.7
12.5°	12414.2	12422.4	12563.5	12837.7	13337.5	13850.2	13856.7	13825.9	13003.2	11421.2	9472.5
15°	12097.8	12128.7	12180.6	12357.5	12831.2	13652.3	14239.6	14283.4	13825.9	12138.4	9738.6
17.5°	12305.5	12349.3	12305.5	12326.6	12600.8	13339.1	14306.2	14418.1	14544.7	12847.5	9990.1
20°	12868.6	12909.1	12831.2	12745.2	12798.8	13248.2	14259.1	14410.0	15107.7	13477.0	10201.1
22.5°	13627.9	13644.1	13525.7	13384.5	13345.6	13556.5	14298.0	14453.8	15558.8	14046.5	10334.1
25°	14463.5	14478.1	14330.5	14168.2	14075.7	14161.7	14617.7	14734.5	15956.3	14590.1	10410.4
27.5°	15373.8	15386.8	15201.8	15002.2	14895.1	14898.4	15145.0	15270.0	16379.8	15209.9	10472.0
30°	16336.0	16329.5	16159.1	15881.7	15745.4	15742.1	15904.4	16030.9	16993.1	16005.0	10556.4
32.5°	17416.6	17403.6	17161.9	16817.9	16663.7	16686.5	16830.9	16903.9	17754.1	16852.0	10707.3
35°	18839.6	18802.3	18437.2	18010.5	17726.5	17718.4	17840.1	17898.5	18724.4	17877.4	10958.8
37.5°	20686.1	20652.0	20157.1	19537.3	19138.1	18988.9	19133.3	19207.9	20108.4	19193.3	11362.8
40°	22506.6	22472.5	22178.8	21610.9	20996.0	20637.4	20751.0	20830.5	21836.5	20789.9	11872.3
42.5°	23762.5	23791.7	23893.9	23940.9	23364.9	22612.1	22664.0	22746.7	23652.1	22496.9	12454.8
45°	24093.5	24156.7	24734.4	25868.5	26084.3	25497.0	24953.4	24998.9	25497.0	24203.8	13037.3
47.5°	23098.8	23215.7	24330.4	26439.7	28266.7	28682.1	27653.4	27593.3	27267.2	25584.6	13451.1
50°	20838.6	20945.7	22389.8	25510.0	28928.7	31722.8	30888.8	30711.9	28820.0	26410.5	13597.1
52.5°	17567.5	17697.3	18870.4	22582.9	27681.0	33079.2	33952.2	33804.5	29959.0	26475.4	13621.4
55°	12406.1	12563.5	13804.8	17307.9	23726.8	32000.2	35037.7	34993.9	30905.0	26303.4	13673.4
57.5°	6972.2	7085.7	8424.4	11095.1	17377.7	27872.4	33903.5	34193.9	31476.1	26004.8	13751.2
60°	3095.9	3126.7	3819.5	5523.2	10173.5	21301.0	30656.7	31146.8	30986.1	25605.7	13882.7
62.5°	1716.7	1690.7	1690.7	2295.9	4421.5	13186.6	24998.9	25808.5	28894.6	25133.5	13889.2
65°	1345.1	1320.8	1251.0	1260.7	1684.2	5852.6	17311.1	18750.4	24922.6	23749.5	13421.9
67.5°	1140.7	1119.6	1049.8	1022.2	1046.6	1930.9	9511.5	11005.9	18911.0	20152.3	11625.7
70°	963.8	949.2	913.5	879.4	817.8	954.1	3639.4	4655.1	11653.3	13405.6	7936.0
72.5°	775.6	769.1	782.1	752.9	678.2	636.0	1244.5	1507.4	5234.4	5982.4	3269.5
75°	668.5	665.3	671.7	642.5	558.2	443.0	632.8	691.2	1476.5	1463.6	662.0
77.5°	434.8	439.7	556.5	543.6	480.3	295.3	327.8	353.7	447.8	335.9	201.2
80°	277.5	274.2	282.3	451.1	431.6	225.5	163.9	172.0	215.8	165.5	97.4
82.5°	168.7	165.5	185.0	210.9	217.4	157.4	100.6	102.2	134.7	107.1	51.9
85°	14.6	19.5	112.0	103.8	74.6	48.7	48.7	51.9	71.4	63.3	29.2
87.5°	0.0	0.0	19.5	29.2	16.2	17.8	17.8	19.5	27.6	27.6	14.6
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°	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6	8414.6
2.5°	8421.1	8252.4	7911.6	7583.9	7306.4	7038.7	6733.6	6431.8	6290.7	6233.9	6175.5
5°	8435.7	8088.5	7385.9	6678.5	5945.1	5284.7	4721.7	4144.0	3855.2	3728.7	3670.2
7.5°	8455.2	7926.2	6790.4	5602.7	4421.5	3525.8	2743.8	2240.8	2023.3	1989.3	1904.9
10°	8458.4	7729.9	6099.2	4415.0	2964.4	2125.6	1635.5	1375.9	1280.2	1264.0	1236.4
12.5°	8464.9	7497.9	5331.7	3269.5	1976.3	1421.4	1182.8	1096.9	1070.9	1069.3	1069.3
15°	8484.4	7254.5	4535.1	2356.0	1419.7	1126.1	1038.4	1004.4	994.6	999.5	997.9
17.5°	8484.4	6967.3	3753.0	1755.6	1147.2	1012.5	963.8	941.1	937.8	942.7	944.3
20°	8422.7	6618.4	3035.8	1366.2	1017.3	939.5	895.7	874.6	866.4	869.7	871.3
22.5°	8275.1	6190.1	2451.7	1130.9	931.4	872.9	825.9	793.4	780.5	782.1	782.1
25°	8044.7	5682.2	1917.9	978.4	861.6	801.5	746.4	709.1	700.9	699.3	702.6
27.5°	7749.4	5120.8	1526.8	861.6	778.8	722.0	666.9	636.0	629.6	631.2	632.8
30°	7458.9	4538.3	1203.9	762.6	686.3	632.8	590.6	576.0	576.0	580.9	582.5
32.5°	7192.8	3978.5	952.4	676.6	603.6	554.9	530.6	529.0	537.1	540.3	541.9
35°	6964.0	3460.9	788.6	610.1	538.7	496.5	488.4	494.9	504.6	511.1	512.7
37.5°	6801.8	2998.5	689.6	554.9	488.4	454.3	452.7	465.7	478.7	493.3	496.5
40°	6733.6	2607.5	621.4	506.2	447.8	421.9	417.0	434.8	459.2	480.3	483.5
42.5°	6676.9	2287.8	563.0	459.2	415.4	378.1	376.4	399.2	428.4	449.5	454.3
45°	6628.2	2031.5	509.5	408.9	373.2	324.5	329.4	358.6	381.3	404.0	408.9
47.5°	6527.6	1820.5	451.1	355.3	308.3	277.5	287.2	313.2	331.0	365.1	369.9
50°	6347.5	1648.5	391.0	290.4	251.5	240.1	254.7	272.6	295.3	324.5	327.8
52.5°	6225.8	1518.7	339.1	243.4	207.7	210.9	225.5	232.0	245.0	256.4	253.1
55°	6156.0	1447.3	296.9	210.9	176.9	186.6	189.8	181.7	175.2	163.9	159.0
57.5°	6147.9	1382.4	264.5	183.3	155.8	160.6	149.3	121.7	99.0	86.0	82.8
60°	6134.9	1302.9	238.5	154.1	137.9	131.4	107.1	66.5	47.1	43.8	43.8
62.5°	5993.8	1179.6	219.0	129.8	116.8	99.0	61.7	30.8	26.0	27.6	27.6
65°	5544.3	1007.6	199.6	105.5	92.5	71.4	30.8	17.8	9.7	11.4	11.4
67.5°	4713.6	803.2	178.5	81.1	69.8	45.4	17.8	8.1	0.0	0.0	0.0
70°	3155.9	498.1	150.9	56.8	45.4	27.6	13.0	1.6	0.0	0.0	0.0
72.5°	1210.4	269.3	121.7	34.1	29.2	19.5	8.1	0.0	0.0	0.0	0.0
75°	272.6	176.9	84.4	24.3	21.1	13.0	3.2	0.0	0.0	0.0	0.0
77.5°	103.8	128.2	48.7	16.2	14.6	8.1	0.0	0.0	0.0	0.0	0.0
80°	50.3	76.3	22.7	9.7	8.1	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	29.2	9.7	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	14.6	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.9	1.6	1.6	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)