

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: P324714

Luminaire Tested: **GAN-SA0A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324714
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-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 31579 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

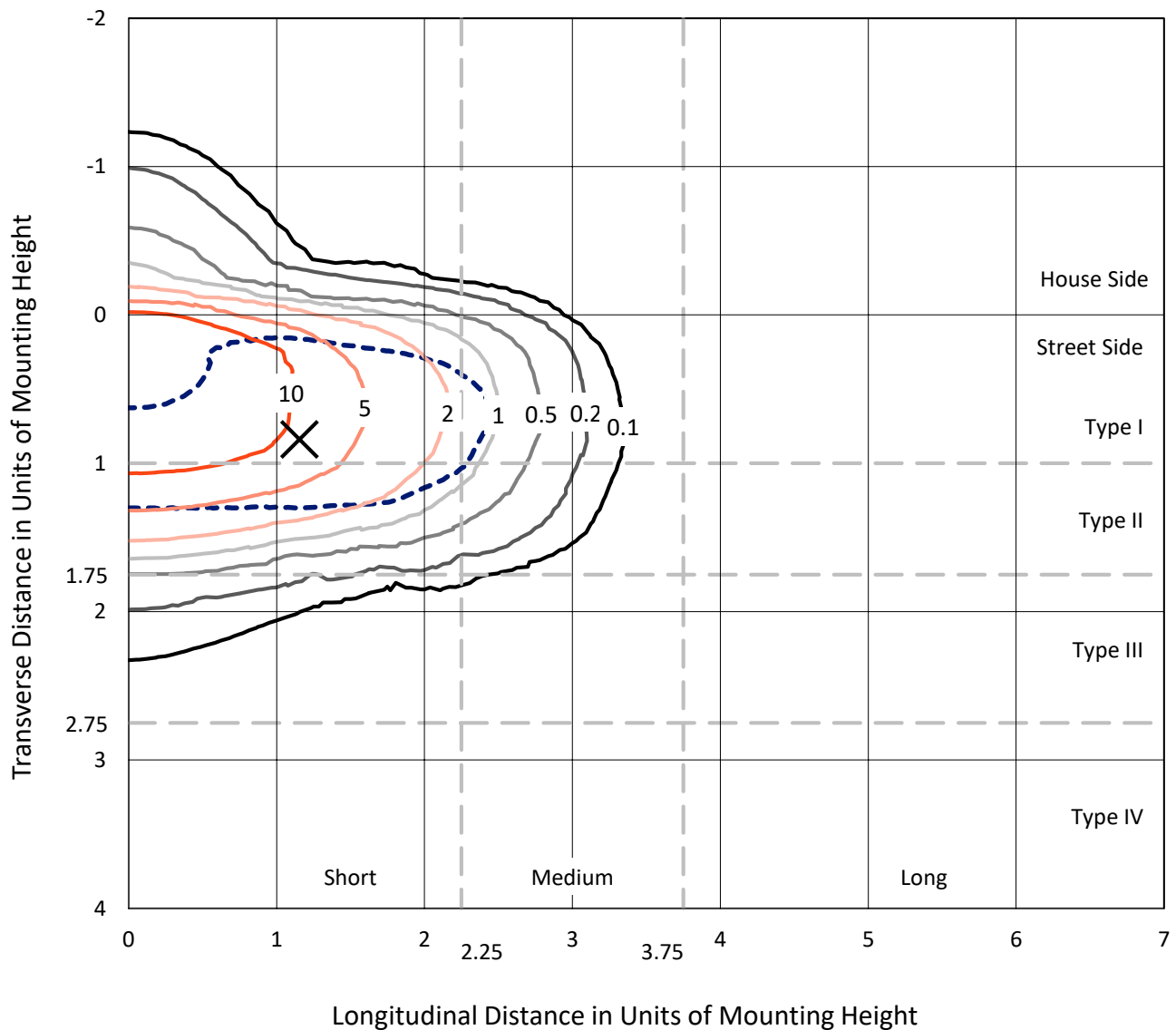
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

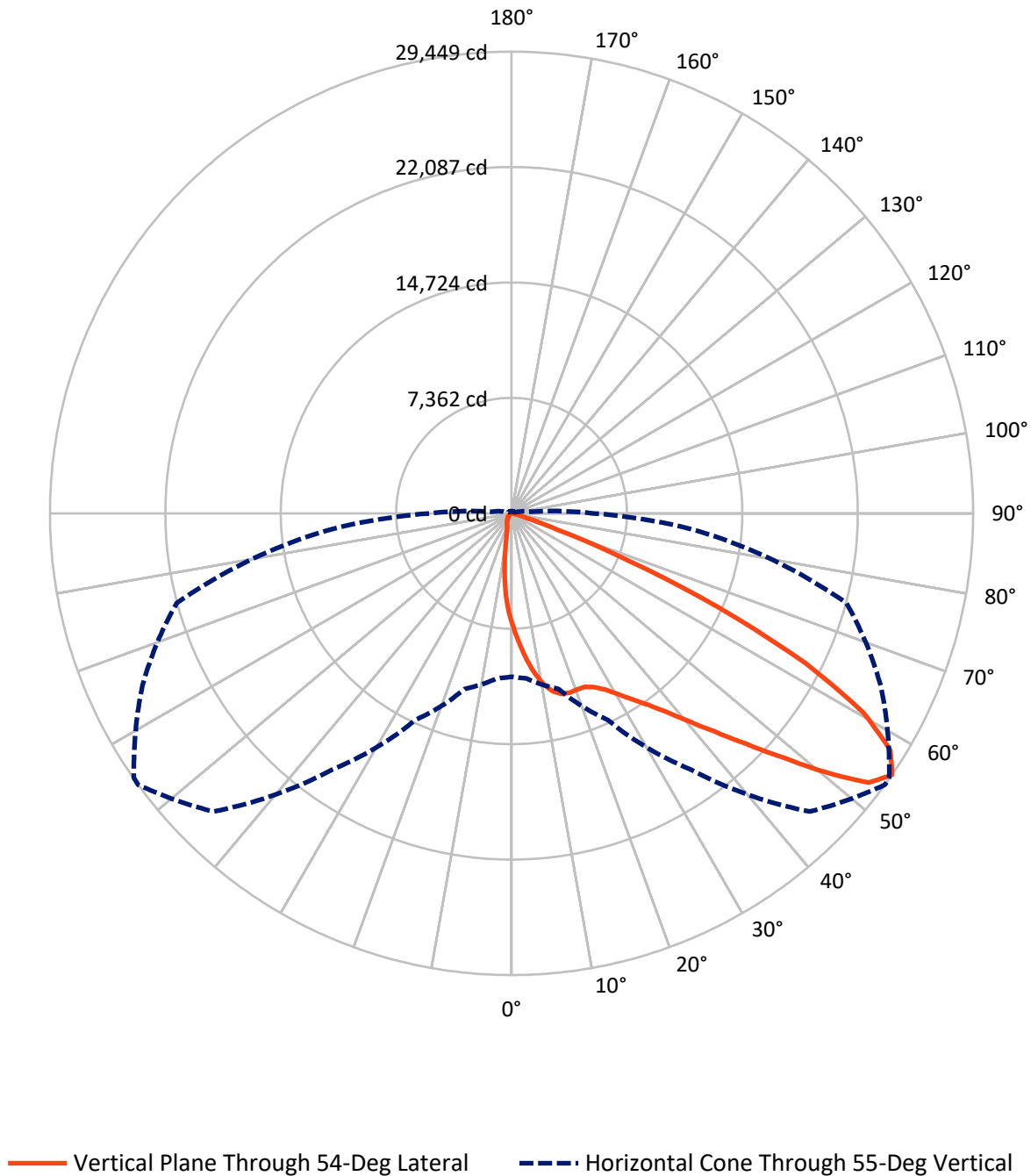
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	1575.6	0.0	1575.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30003.5	0.0	30003.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	31579.0	0.0	31579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.3	2.1
10°-20°	1786.2	5.7
20°-30°	3049.6	9.7
30°-40°	4894.1	15.5
40°-50°	7820.8	24.8
50°-60°	8380.2	26.5
60°-70°	4302.6	13.6
70°-80°	651.7	2.1
80°-90°	42.4	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°	31579.0	100.0
0°-180°	31579.0	100.0

Coefficient of Utilization



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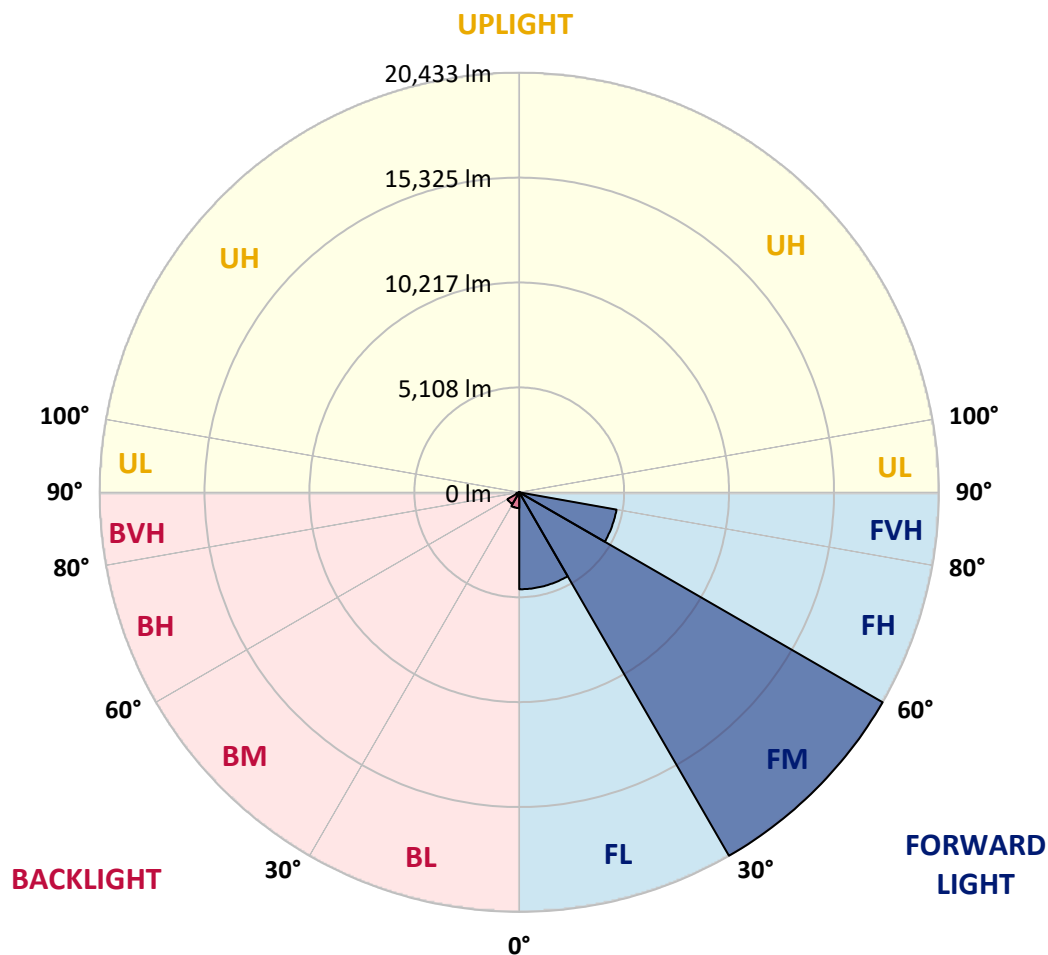
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4720.5	14.9			
FM	(30°-60°)	20433.0	64.7			
FH	(60°-80°)	4809.2	15.2			G2/5000
FVH	(80°-90°)	40.7	0.1			G1/100
BL	(0°-30°)	766.6	2.4	B2/1000		
BM	(30°-60°)	662.1	2.1	B1/1000		
BH	(60°-80°)	145.2	0.5	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4
2.5°	8875.3	8743.0	8747.1	8687.1	8467.5	8295.7	8117.1	8074.8	7796.6	7504.7	7223.8
5°	10409.5	10312.7	10289.5	10173.6	9868.1	9544.9	9198.5	9118.1	8573.9	7976.6	7388.8
7.5°	11197.8	11199.1	11180.1	11137.8	10946.9	10633.2	10210.4	10125.9	9385.4	8489.4	7560.7
10°	10968.7	11020.5	11126.9	11267.3	11413.3	11373.7	11056.0	10979.6	10175.0	9032.1	7751.6
12.5°	10434.1	10440.9	10559.5	10790.0	11210.1	11641.0	11646.5	11620.5	10929.1	9599.5	7961.6
15°	10168.2	10194.1	10237.7	10386.4	10784.6	11474.6	11968.3	12005.1	11620.5	10202.2	8185.3
17.5°	10342.7	10379.5	10342.7	10360.4	10590.9	11211.4	12024.2	12118.3	12224.7	10798.2	8396.6
20°	10815.9	10850.0	10784.6	10712.3	10757.3	11135.1	11984.7	12111.5	12697.9	11327.3	8573.9
22.5°	11454.2	11467.8	11368.3	11249.6	11216.9	11394.2	12017.4	12148.3	13077.0	11806.0	8685.7
25°	12156.5	12168.8	12044.7	11908.3	11830.6	11902.8	12286.1	12384.3	13411.2	12262.9	8749.8
27.5°	12921.6	12932.5	12777.0	12609.3	12519.3	12522.0	12729.3	12834.3	13767.1	12783.8	8801.7
30°	13730.3	13724.8	13581.6	13348.4	13233.9	13231.1	13367.5	13473.9	14282.6	13452.1	8872.6
32.5°	14638.5	14627.6	14424.4	14135.3	14005.8	14024.8	14146.2	14207.6	14922.2	14163.9	8999.4
35°	15834.5	15803.2	15496.3	15137.7	14899.0	14892.2	14994.5	15043.6	15737.7	15025.8	9210.8
37.5°	17386.5	17357.9	16941.9	16421.0	16085.5	15960.0	16081.4	16144.1	16901.0	16131.8	9550.4
40°	18916.6	18888.0	18641.2	18163.8	17647.0	17345.6	17441.1	17507.9	18353.4	17473.8	9978.6
42.5°	19972.2	19996.7	20082.6	20122.2	19638.1	19005.3	19048.9	19118.5	19879.4	18908.5	10468.2
45°	20250.4	20303.6	20789.1	21742.3	21923.7	21430.0	20973.2	21011.4	21430.0	20343.1	10957.8
47.5°	19414.4	19512.6	20449.5	22222.4	23758.0	24107.1	23242.5	23192.0	22917.9	21503.7	11305.5
50°	17514.7	17604.7	18818.4	21440.9	24314.4	26662.8	25961.8	25813.1	24223.0	22197.8	11428.3
52.5°	14765.4	14874.5	15860.5	18980.7	23265.6	27802.9	28536.6	28412.5	25180.4	22252.4	11448.7
55°	10427.3	10559.5	11602.8	14547.2	19942.2	26896.0	29448.9	29412.1	25975.4	22107.8	11492.4
57.5°	5860.1	5955.5	7080.6	9325.4	14605.8	23426.6	28495.6	28739.8	26455.5	21856.9	11557.8
60°	2602.0	2628.0	3210.3	4642.2	8550.7	17903.4	25766.8	26178.6	26043.6	21521.4	11668.3
62.5°	1442.9	1421.0	1421.0	1929.7	3716.2	11083.2	21011.4	21691.9	24285.7	21124.6	11673.7
65°	1130.6	1110.1	1051.5	1059.6	1415.6	4919.1	14549.9	15759.5	20947.3	19961.3	11281.0
67.5°	958.7	941.0	882.3	859.2	879.6	1622.9	7994.3	9250.3	15894.6	16937.8	9771.3
70°	810.1	797.8	767.8	739.2	687.3	801.9	3058.9	3912.6	9794.5	11267.3	6670.1
72.5°	651.9	646.4	657.3	632.8	570.0	534.6	1046.0	1266.9	4399.5	5028.2	2748.0
75°	561.9	559.1	564.6	540.0	469.1	372.3	531.9	581.0	1241.0	1230.1	556.4
77.5°	365.5	369.6	467.8	456.9	403.7	248.2	275.5	297.3	376.4	282.3	169.1
80°	233.2	230.5	237.3	379.1	362.8	189.6	137.7	144.6	181.4	139.1	81.8
82.5°	141.8	139.1	155.5	177.3	182.7	132.3	84.6	85.9	113.2	90.0	43.6
85°	12.3	16.4	94.1	87.3	62.7	40.9	40.9	43.6	60.0	53.2	24.5
87.5°	0.0	0.0	16.4	24.5	13.6	15.0	15.0	16.4	23.2	23.2	12.3
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°	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4	7072.4
2.5°	7077.9	6936.1	6649.7	6374.2	6141.0	5916.0	5659.6	5405.9	5287.3	5239.5	5190.4
5°	7090.2	6798.3	6207.8	5613.2	4996.8	4441.7	3968.5	3483.0	3240.3	3133.9	3084.8
7.5°	7106.5	6661.9	5707.3	4709.0	3716.2	2963.4	2306.1	1883.3	1700.6	1672.0	1601.0
10°	7109.2	6496.9	5126.4	3710.8	2491.6	1786.5	1374.7	1156.5	1076.0	1062.4	1039.2
12.5°	7114.7	6301.9	4481.3	2748.0	1661.1	1194.6	994.2	921.9	900.1	898.7	898.7
15°	7131.1	6097.3	3811.7	1980.2	1193.3	946.4	872.8	844.2	836.0	840.1	838.7
17.5°	7131.1	5856.0	3154.4	1475.6	964.2	851.0	810.1	791.0	788.2	792.3	793.7
20°	7079.2	5562.8	2551.6	1148.3	855.1	789.6	752.8	735.1	728.2	731.0	732.3
22.5°	6955.1	5202.7	2060.6	950.5	782.8	733.7	694.2	666.9	656.0	657.3	657.3
25°	6761.5	4775.9	1612.0	822.3	724.2	673.7	627.3	596.0	589.1	587.8	590.5
27.5°	6513.3	4304.0	1283.3	724.2	654.6	606.9	560.5	534.6	529.1	530.5	531.9
30°	6269.2	3814.4	1011.9	641.0	576.9	531.9	496.4	484.1	484.1	488.2	489.6
32.5°	6045.5	3343.9	800.5	568.7	507.3	466.4	445.9	444.6	451.4	454.1	455.5
35°	5853.2	2908.9	662.8	512.8	452.8	417.3	410.5	415.9	424.1	429.6	430.9
37.5°	5716.9	2520.2	579.6	466.4	410.5	381.9	380.5	391.4	402.3	414.6	417.3
40°	5659.6	2191.6	522.3	425.5	376.4	354.6	350.5	365.5	385.9	403.7	406.4
42.5°	5611.8	1922.9	473.2	385.9	349.1	317.8	316.4	335.5	360.0	377.8	381.9
45°	5570.9	1707.4	428.2	343.7	313.7	272.8	276.8	301.4	320.5	339.6	343.7
47.5°	5486.4	1530.1	379.1	298.7	259.1	233.2	241.4	263.2	278.2	306.8	310.9
50°	5335.0	1385.6	328.7	244.1	211.4	201.8	214.1	229.1	248.2	272.8	275.5
52.5°	5232.7	1276.5	285.0	204.6	174.6	177.3	189.6	195.0	205.9	215.5	212.7
55°	5174.1	1216.5	249.6	177.3	148.6	156.8	159.6	152.7	147.3	137.7	133.6
57.5°	5167.3	1161.9	222.3	154.1	130.9	135.0	125.5	102.3	83.2	72.3	69.6
60°	5156.4	1095.1	200.5	129.6	115.9	110.5	90.0	55.9	39.5	36.8	36.8
62.5°	5037.7	991.4	184.1	109.1	98.2	83.2	51.8	25.9	21.8	23.2	23.2
65°	4659.9	846.9	167.7	88.6	77.7	60.0	25.9	15.0	8.2	9.5	9.5
67.5°	3961.7	675.1	150.0	68.2	58.6	38.2	15.0	6.8	0.0	0.0	0.0
70°	2652.5	418.7	126.8	47.7	38.2	23.2	10.9	1.4	0.0	0.0	0.0
72.5°	1017.4	226.4	102.3	28.6	24.5	16.4	6.8	0.0	0.0	0.0	0.0
75°	229.1	148.6	70.9	20.5	17.7	10.9	2.7	0.0	0.0	0.0	0.0
77.5°	87.3	107.7	40.9	13.6	12.3	6.8	0.0	0.0	0.0	0.0	0.0
80°	42.3	64.1	19.1	8.2	6.8	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.8	24.5	8.2	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	12.3	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	4.1	1.4	1.4	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)