

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: P322061

Luminaire Tested: **GAN-SA7D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28701 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

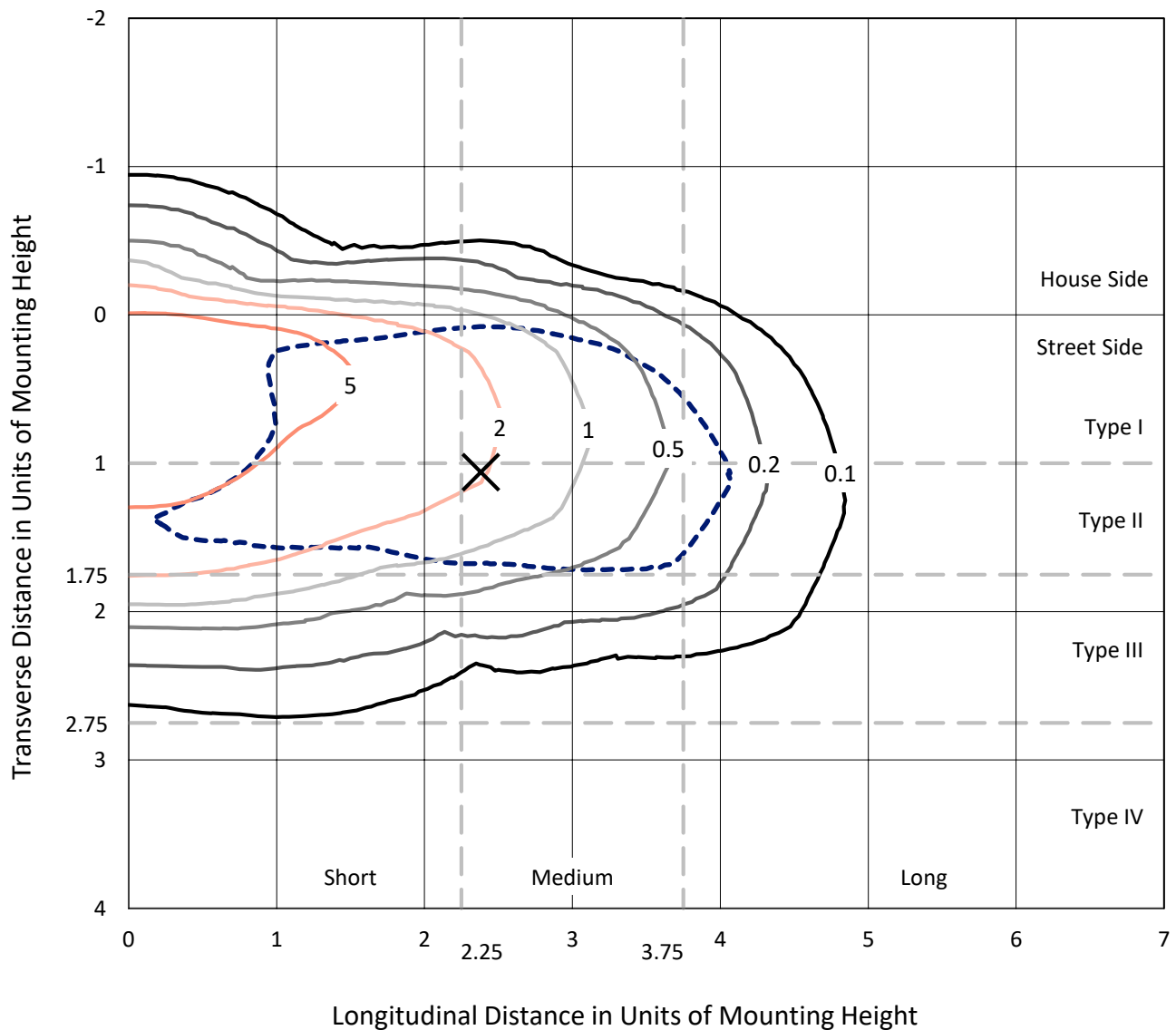


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Iso-Footcandle Lines of Horizontal Illumination

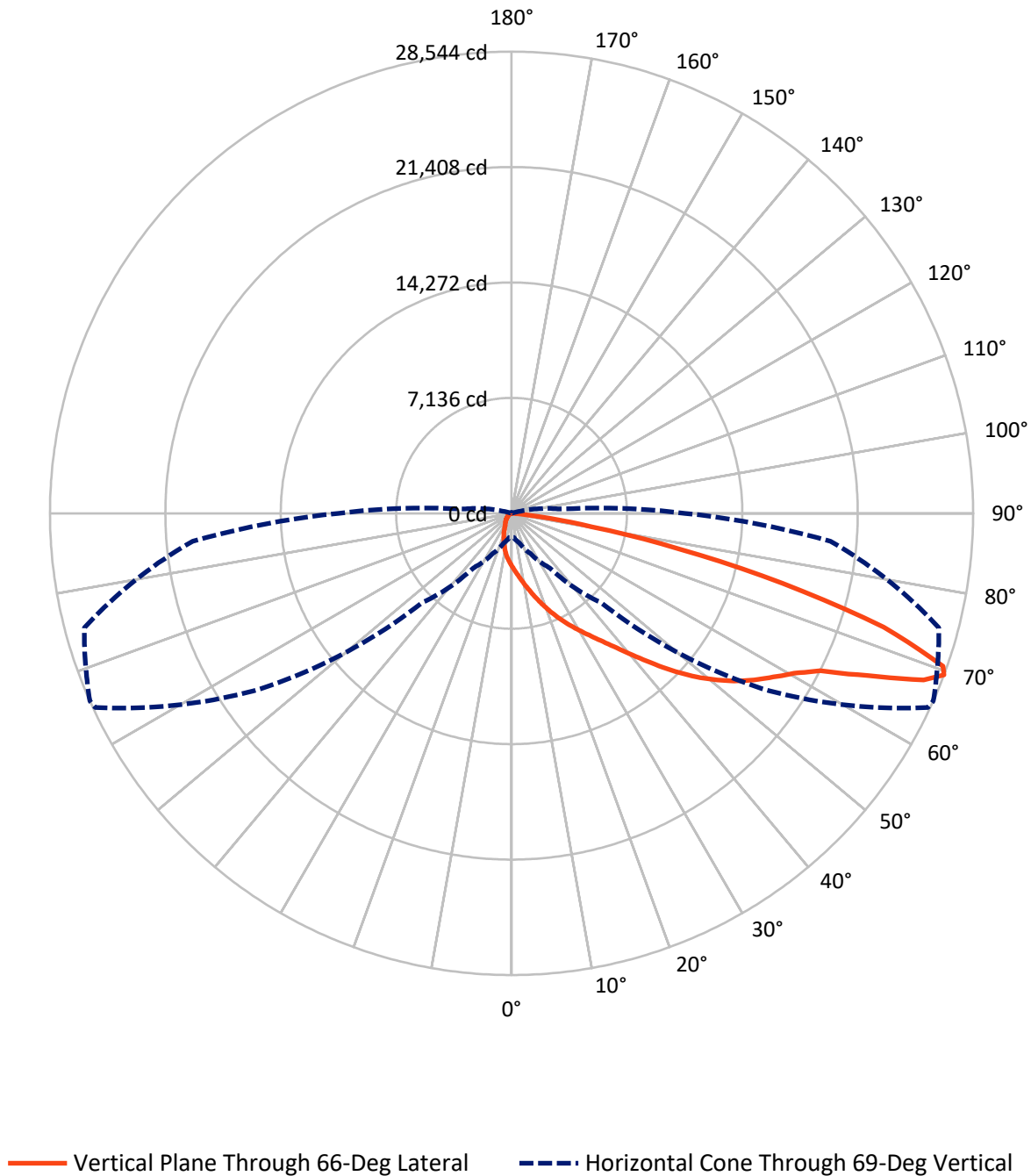
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1721.7	0.0	1721.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	26979.3	0.0	26979.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	28701.0	0.0	28701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	1.1
10°-20°	939.7	3.3
20°-30°	1636.3	5.7
30°-40°	2870.9	10.0
40°-50°	4805.4	16.7
50°-60°	7063.5	24.6
60°-70°	7252.4	25.3
70°-80°	3580.3	12.5
80°-90°	236.7	0.8
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°	28701.0	100.0
0°-180°	28701.0	100.0

Coefficient of Utilization



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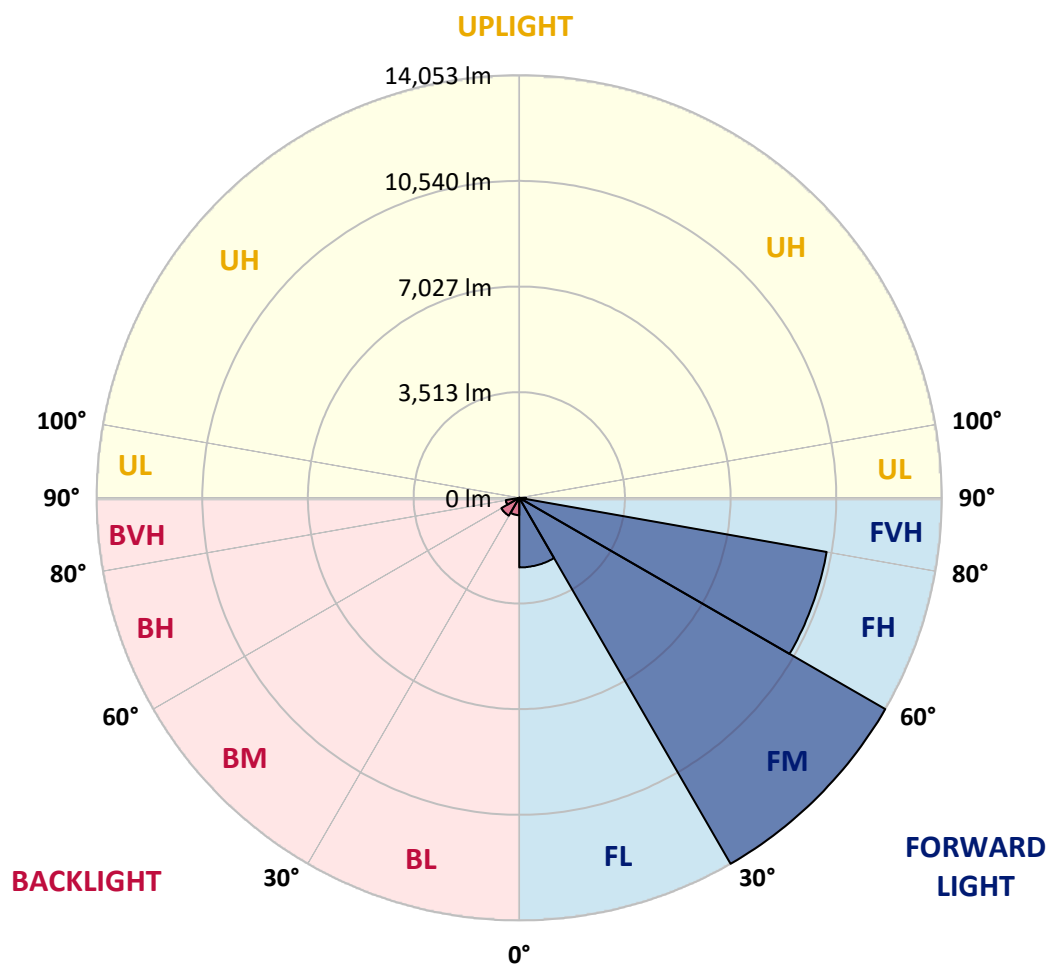
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2315.9	8.1			
FM	(30°-60°)	14053.4	49.0			
FH	(60°-80°)	10379.1	36.2			G4/12000
FVH	(80°-90°)	231.0	0.8			G3/500
BL	(0°-30°)	575.8	2.0	B2/1000		
BM	(30°-60°)	686.4	2.4	B1/1000		
BH	(60°-80°)	453.7	1.6	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3
2.5°	3844.3	3827.9	3821.1	3791.1	3739.3	3699.8	3623.4	3534.8	3518.5	3432.6	3327.6
5°	4343.2	4329.6	4320.0	4277.8	4224.6	4125.1	3986.0	3821.1	3789.7	3626.2	3416.2
7.5°	4690.8	4715.4	4715.4	4688.1	4621.3	4546.3	4375.9	4151.0	4111.5	3860.6	3534.8
10°	4893.9	4923.9	4947.1	4970.3	4960.7	4930.8	4769.9	4516.3	4468.6	4136.0	3672.5
12.5°	4913.0	4943.0	5008.5	5105.2	5199.3	5267.5	5166.6	4921.2	4866.7	4455.0	3836.1
15°	4806.7	4838.1	4938.9	5127.1	5354.7	5553.7	5586.5	5369.7	5313.8	4835.3	4040.6
17.5°	4621.3	4641.8	4786.3	5046.6	5403.8	5769.1	5966.8	5850.9	5799.1	5270.2	4268.2
20°	4483.6	4498.6	4625.4	4904.9	5373.8	5904.1	6326.7	6362.1	6307.6	5736.4	4515.0
22.5°	4719.5	4746.7	4750.8	4883.0	5292.0	5970.9	6643.0	6865.2	6824.3	6231.3	4757.6
25°	5364.3	5395.6	5292.0	5210.2	5361.5	6000.9	6914.2	7380.5	7347.7	6764.3	5001.6
27.5°	6216.3	6249.0	6115.4	5871.4	5725.5	6114.0	7155.5	7903.9	7902.6	7328.7	5264.7
30°	7053.3	7086.0	6949.7	6705.7	6370.3	6434.4	7364.1	8451.9	8460.1	7910.7	5544.2
32.5°	7931.2	7972.1	7831.7	7518.1	7167.8	6987.8	7657.2	9002.7	9049.0	8585.5	5859.1
35°	8929.1	8934.5	8736.9	8408.3	8004.8	7728.1	8127.5	9620.2	9730.6	9421.2	6258.5
37.5°	9907.9	9947.4	9785.2	9267.1	8896.3	8582.8	8826.8	10391.8	10548.6	10442.2	6780.6
40°	10633.1	10716.2	10693.1	10134.1	9782.4	9558.9	9695.2	11309.2	11508.3	11631.0	7439.1
42.5°	11088.4	11151.1	11257.4	10920.7	10601.7	10638.5	10720.3	12378.0	12623.4	12986.0	8195.7
45°	11610.5	11640.5	11729.1	11580.5	11365.1	11735.9	11808.2	13581.7	13839.4	14443.3	9035.4
47.5°	12248.5	12319.4	12343.9	12207.6	12109.4	12706.5	12856.5	14676.4	15037.6	16004.2	9924.2
50°	13061.0	13080.1	13122.3	13033.7	12935.6	13540.8	13797.1	15825.6	16154.1	17570.5	10800.8
52.5°	13855.7	13923.9	14071.1	14015.2	13975.7	14251.1	14635.5	16861.6	17228.3	18876.5	11675.9
55°	14084.7	14143.4	14651.8	14999.5	15321.2	15126.2	15437.1	17790.0	18186.7	20043.4	12518.4
57.5°	13170.0	13288.6	14169.3	15074.4	16409.0	16486.7	16538.5	18742.9	19098.7	20937.6	13395.0
60°	10858.0	10881.2	12326.2	13878.9	16229.1	17674.1	18147.1	19766.6	20065.2	21770.6	14444.6
62.5°	6906.1	7141.9	8727.3	10919.4	14326.0	17502.3	20092.4	21315.2	21424.3	22769.8	15949.6
65°	3289.4	3442.1	4584.5	6746.6	10376.8	15303.5	21435.2	24116.7	24165.7	24750.6	17960.4
67.5°	1821.3	1894.9	2438.8	3631.6	6066.3	10822.6	20892.7	27434.7	27481.1	26773.6	19724.4
69°	1424.6	1487.3	1915.3	2737.3	4112.8	7778.5	18906.4	28406.7	28544.4	27352.9	19787.1
70°	1209.2	1270.5	1649.5	2312.0	3307.2	6010.4	16828.9	28165.4	28311.3	27298.4	19319.5
72.5°	740.2	775.7	1098.8	1627.7	2216.6	3023.6	10378.2	23819.5	24066.2	25040.9	16604.0
75°	498.9	518.0	687.1	1123.3	1585.4	1556.8	5391.5	16789.4	17323.8	19479.0	12263.5
77.5°	357.2	374.9	460.8	726.6	1111.0	1027.9	2441.5	10434.1	10548.6	11682.8	6687.9
80°	203.1	219.5	325.8	432.1	753.9	685.7	970.6	4983.9	5041.2	5009.8	2232.9
82.5°	106.3	120.0	178.6	284.9	483.9	448.5	403.5	1668.6	1676.8	1394.6	489.4
85°	20.4	24.5	88.6	194.9	249.5	194.9	164.9	391.2	399.4	353.1	121.3
87.5°	0.0	1.4	35.4	43.6	49.1	50.4	53.2	76.3	81.8	110.4	32.7
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°	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3	3266.3
2.5°	3281.3	3232.2	3138.1	3029.1	2944.5	2861.4	2796.0	2727.8	2703.3	2691.0	2689.6
5°	3314.0	3210.4	3011.3	2806.9	2639.2	2481.1	2367.9	2260.2	2209.8	2186.6	2177.1
7.5°	3368.5	3202.2	2881.8	2569.7	2328.4	2130.7	1973.9	1856.7	1798.1	1773.5	1764.0
10°	3432.6	3191.3	2730.5	2318.8	2010.7	1806.3	1650.9	1535.0	1470.9	1443.6	1430.0
12.5°	3507.6	3172.2	2556.0	2065.3	1739.5	1535.0	1346.9	1203.7	1130.1	1098.8	1083.8
15°	3600.3	3153.1	2373.4	1826.7	1500.9	1251.4	1045.6	948.8	933.8	928.4	929.7
17.5°	3691.6	3123.1	2174.3	1590.9	1250.1	977.4	872.5	867.0	869.7	869.7	869.7
20°	3773.4	3055.0	1957.6	1389.1	1011.5	824.7	802.9	793.4	786.6	781.1	774.3
22.5°	3837.5	2963.6	1749.0	1188.7	826.1	755.2	721.1	691.2	666.6	650.3	642.1
25°	3881.1	2842.3	1558.2	996.5	743.0	687.1	625.7	575.3	537.1	513.9	504.4
27.5°	3913.8	2711.4	1387.8	834.3	685.7	608.0	527.6	467.6	428.0	407.6	399.4
30°	3937.0	2562.8	1237.8	733.4	621.6	524.8	439.0	380.3	351.7	340.8	335.4
32.5°	3958.8	2397.9	1096.0	685.7	561.6	448.5	368.1	323.1	305.4	291.7	287.6
35°	4013.3	2245.2	961.1	635.3	500.3	383.1	316.3	283.5	265.8	257.6	254.9
37.5°	4142.8	2132.1	831.6	583.5	439.0	331.3	276.7	253.6	237.2	229.0	226.3
40°	4351.4	2074.8	722.5	527.6	379.0	291.7	250.8	229.0	211.3	199.0	196.3
42.5°	4658.1	2083.0	646.2	471.7	331.3	260.4	226.3	200.4	181.3	170.4	167.7
45°	5030.3	2143.0	593.0	417.1	291.7	235.8	199.0	171.8	154.0	144.5	141.8
47.5°	5433.8	2239.8	549.4	368.1	260.4	212.7	171.8	143.1	128.1	120.0	118.6
50°	5859.1	2333.8	504.4	320.4	233.1	189.5	144.5	118.6	106.3	99.5	96.8
52.5°	6289.9	2442.9	463.5	276.7	209.9	162.2	120.0	96.8	87.2	81.8	79.1
55°	6753.4	2524.7	424.0	242.7	186.8	137.7	99.5	80.4	72.3	65.4	64.1
57.5°	7298.7	2651.5	383.1	209.9	159.5	114.5	81.8	64.1	57.3	50.4	49.1
60°	8034.8	2800.0	339.4	185.4	130.9	94.1	66.8	51.8	43.6	38.2	36.8
62.5°	9005.4	2965.0	284.9	162.2	106.3	76.3	53.2	40.9	31.4	24.5	24.5
65°	10236.4	3233.5	233.1	136.3	87.2	62.7	40.9	30.0	17.7	10.9	10.9
67.5°	10954.8	3279.9	188.1	111.8	70.9	53.2	34.1	20.4	5.5	1.4	0.0
69°	10724.4	3011.3	159.5	95.4	61.3	50.4	31.4	15.0	2.7	0.0	0.0
70°	10290.9	2753.7	140.4	84.5	55.9	47.7	30.0	10.9	2.7	0.0	0.0
72.5°	8503.7	1960.3	106.3	62.7	40.9	42.3	27.3	6.8	2.7	0.0	0.0
75°	6194.5	1191.5	76.3	43.6	25.9	31.4	19.1	2.7	1.4	0.0	0.0
77.5°	3446.2	561.6	47.7	24.5	16.4	19.1	9.5	0.0	0.0	0.0	0.0
80°	1119.2	152.7	21.8	13.6	9.5	10.9	4.1	0.0	0.0	0.0	0.0
82.5°	207.2	43.6	12.3	6.8	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	45.0	17.7	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	5.5	1.4	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)