

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: P649310

Luminaire Tested: **GLAN-SA3D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14957.6 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

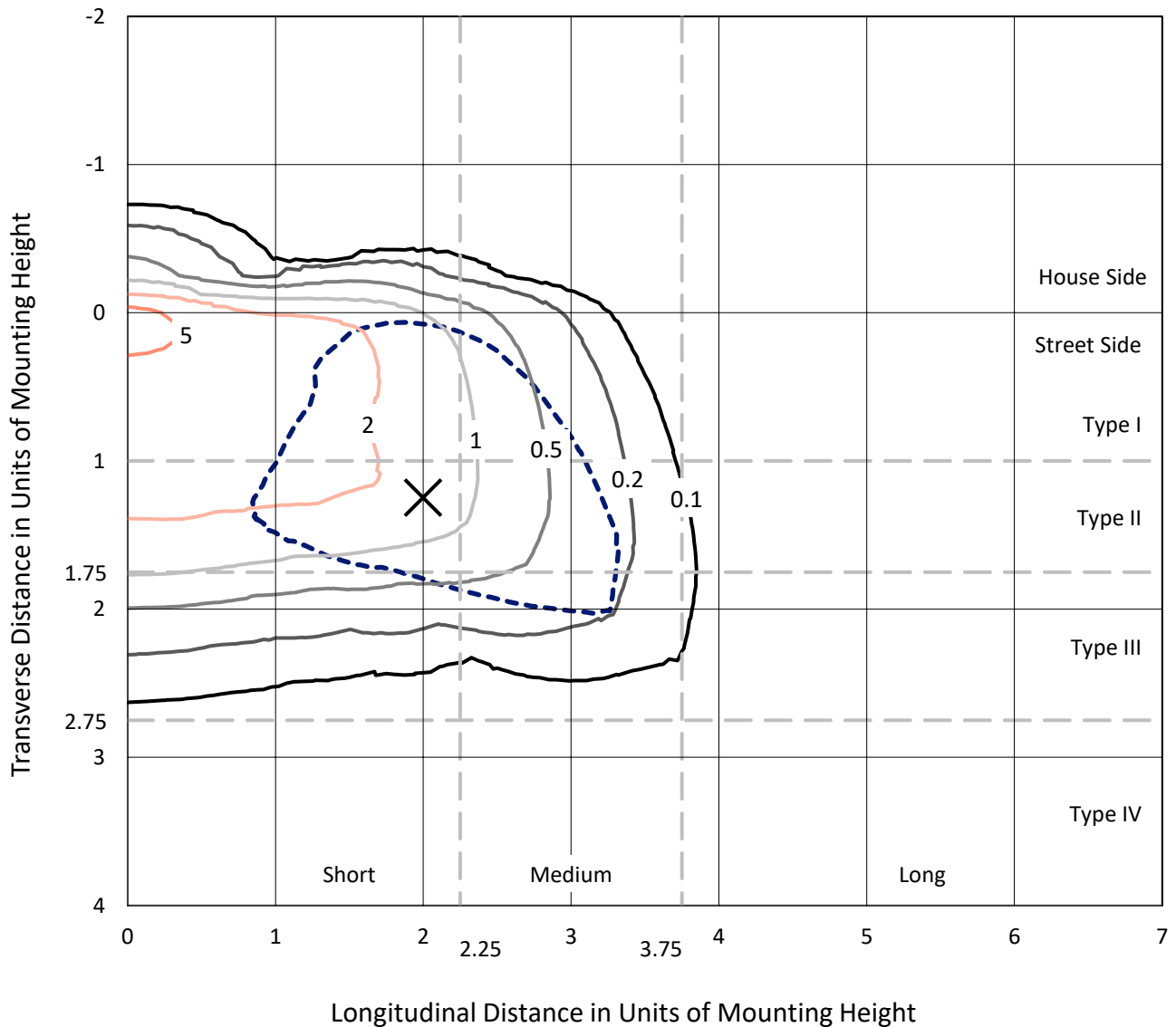
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

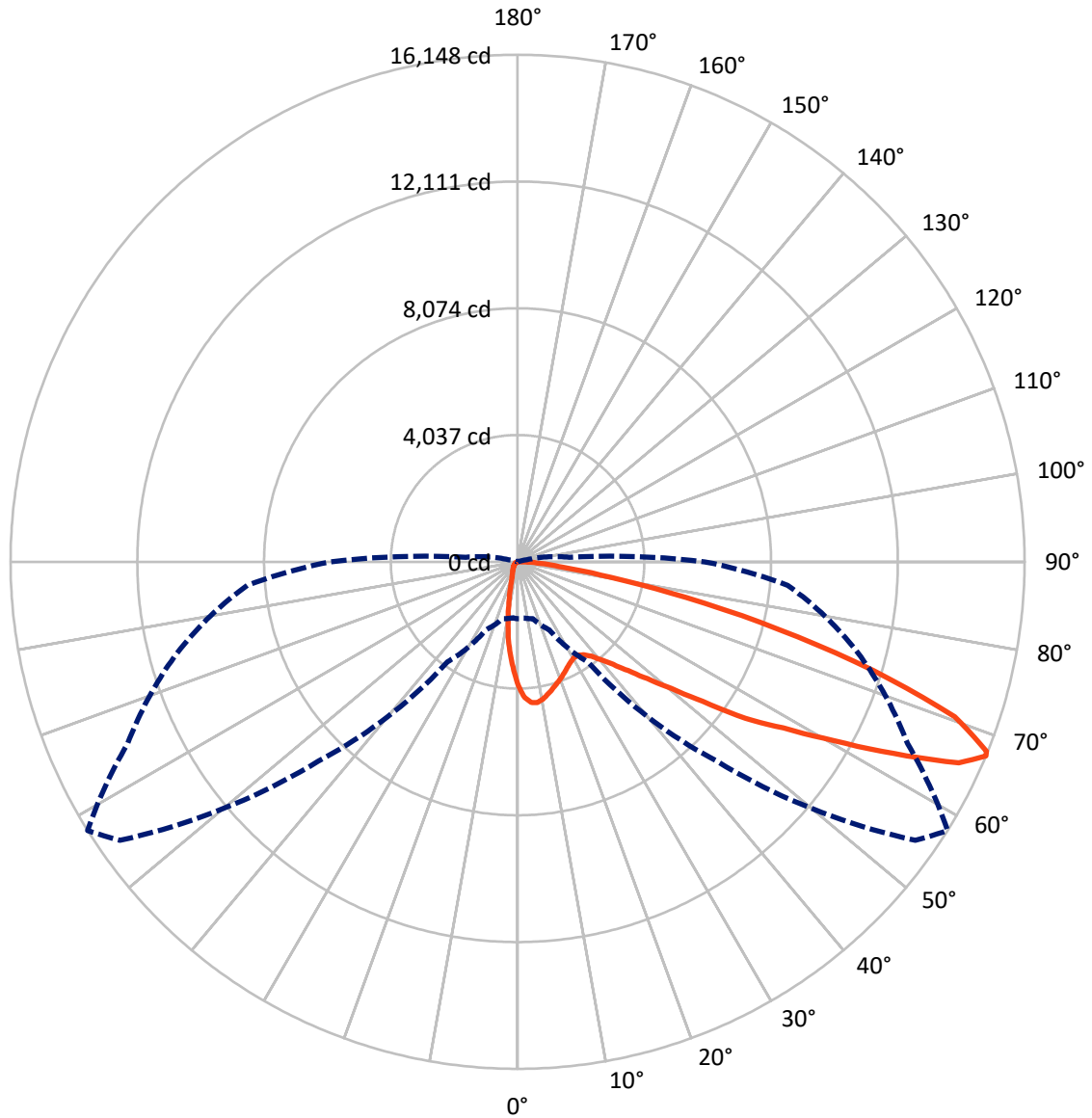
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.4	0.0	1079.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13878.2	0.0	13878.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	14957.6	0.0	14957.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	2.2
10°-20°	694.9	4.6
20°-30°	941.7	6.3
30°-40°	1306.0	8.7
40°-50°	2083.0	13.9
50°-60°	3600.6	24.1
60°-70°	4113.0	27.5
70°-80°	1714.8	11.5
80°-90°	181.8	1.2
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°	14957.6	100.0
0°-180°	14957.6	100.0

Coefficient of Utilization



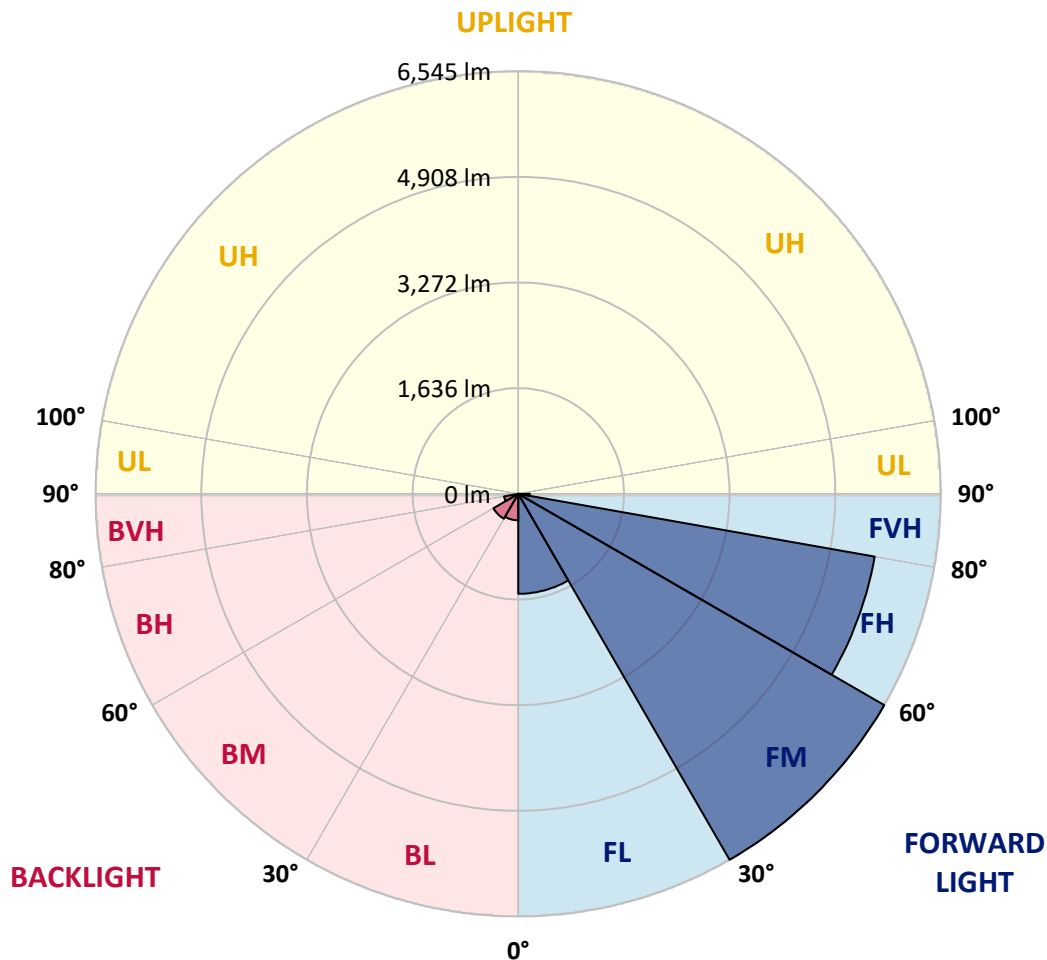
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.5	10.4			
FM (30°-60°)	6544.6	43.8			
FH (60°-80°)	5604.6	37.5			G3/7500
FVH (80°-90°)	180.5	1.2			G2/225
BL (0°-30°)	409.9	2.7	B1/500		
BM (30°-60°)	445.1	3.0	B1/1000		
BH (60°-80°)	223.2	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1
2.5°	4601.8	4608.8	4582.8	4561.8	4507.9	4449.9	4373.0	4331.9	4262.0	4141.1	4007.1
5°	4709.8	4718.7	4714.8	4709.8	4688.8	4632.9	4534.9	4498.9	4395.9	4199.0	3957.1
7.5°	4469.9	4502.9	4506.9	4545.9	4582.8	4587.8	4550.9	4523.9	4428.9	4198.1	3868.2
10°	4152.0	4174.0	4206.0	4251.0	4339.9	4413.9	4449.9	4445.9	4390.9	4167.0	3764.2
12.5°	3831.2	3843.2	3892.1	3969.1	4078.1	4204.0	4300.0	4318.9	4320.0	4130.1	3677.3
15°	3555.3	3550.4	3588.3	3677.3	3830.2	3988.1	4160.1	4190.1	4238.0	4094.1	3596.3
17.5°	3319.5	3345.4	3351.4	3449.3	3590.3	3795.2	4014.1	4067.1	4163.1	4063.1	3529.4
20°	3173.5	3187.5	3200.5	3255.5	3382.4	3598.3	3877.2	3950.2	4093.1	4035.1	3454.4
22.5°	3130.5	3139.5	3128.6	3145.5	3235.5	3427.4	3728.3	3825.2	4026.1	4009.1	3393.4
25°	3163.5	3172.5	3146.5	3126.5	3157.5	3288.4	3584.3	3702.3	3972.2	4004.1	3347.4
27.5°	3243.5	3260.5	3224.5	3188.5	3170.5	3213.5	3471.4	3608.3	3935.1	4028.1	3326.4
30°	3368.4	3378.4	3351.4	3307.5	3266.4	3223.5	3412.4	3543.3	3925.2	4084.0	3324.5
32.5°	3504.3	3525.4	3510.3	3481.4	3428.4	3326.4	3429.4	3545.3	3949.1	4165.0	3349.4
35°	3672.3	3696.2	3710.2	3704.3	3636.3	3509.3	3537.4	3635.3	4013.1	4313.9	3417.4
37.5°	3837.2	3858.2	3937.2	3964.2	3904.2	3784.2	3747.2	3812.2	4154.0	4508.9	3540.3
40°	4026.1	4054.1	4165.0	4268.0	4239.0	4113.1	4045.1	4099.1	4369.9	4802.8	3773.2
42.5°	4207.1	4257.0	4425.9	4607.8	4634.8	4493.9	4448.9	4466.9	4689.8	5225.5	4098.1
45°	4463.9	4510.9	4728.8	4975.7	5102.6	4992.6	4946.7	4943.7	5128.6	5820.3	4624.8
47.5°	4834.7	4876.7	5133.6	5377.5	5603.4	5618.3	5531.4	5561.4	5680.4	6516.0	5270.5
50°	5289.5	5388.4	5557.4	5811.3	6113.1	6357.0	6384.0	6344.0	6446.0	7321.5	6046.2
52.5°	5950.2	5988.1	6143.1	6352.0	6705.8	7119.7	7440.5	7385.5	7353.5	8089.2	6829.8
55°	6443.0	6494.0	6734.8	7021.7	7540.4	8086.2	8781.9	8800.8	8397.0	8826.8	7596.4
57.5°	6294.1	6372.0	6736.9	7313.5	8454.1	9451.6	9969.3	9982.3	9362.6	9543.5	8462.0
60°	5529.4	5566.3	6089.2	6858.8	8532.0	10930.8	11653.5	11548.5	10345.2	10345.2	9226.6
62.5°	3921.2	3979.1	4403.0	5535.4	7705.3	11444.6	13670.6	13453.7	11698.5	11111.8	9682.4
65°	2505.8	2449.9	2730.7	3494.4	5740.3	10686.0	15426.7	15439.7	12971.9	11418.6	9433.6
67°	1815.2	1793.1	1874.1	2388.9	3892.1	8982.8	15463.7	16148.4	13703.5	11224.7	8637.9
67.5°	1660.2	1677.2	1736.1	2155.0	3536.3	8174.1	15295.8	16106.4	13868.5	11107.8	8350.1
70°	1258.4	1229.4	1293.4	1524.3	2120.0	5156.6	13157.8	14772.1	13663.6	9947.3	6671.9
72.5°	925.6	922.5	1011.6	1246.4	1632.2	2746.7	9877.4	11844.4	11162.8	7574.4	4201.0
75°	624.7	652.7	794.6	1041.5	1479.3	1781.2	6733.8	8593.0	7749.4	4300.9	1717.2
77.5°	355.8	357.8	511.8	836.6	1328.4	1433.4	3990.1	5474.4	4102.1	1430.3	509.7
80°	153.9	168.9	253.8	607.7	1101.4	1269.4	2287.9	3008.6	1659.3	302.9	164.9
82.5°	57.0	66.9	112.0	373.8	803.6	1045.5	1382.4	1436.3	562.7	107.0	103.0
85°	0.0	2.0	41.0	174.9	418.8	466.7	923.5	851.6	248.9	51.0	66.9
87.5°	0.0	0.0	0.0	18.0	55.0	173.9	286.9	319.9	60.0	18.0	16.0
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°	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1	3965.1
2.5°	3935.1	3870.2	3707.3	3544.3	3423.4	3322.4	3170.5	3087.5	3043.6	2978.6	2982.6
5°	3836.2	3704.3	3417.4	3120.6	2880.7	2646.8	2366.9	2253.9	2159.0	2105.0	2069.0
7.5°	3689.3	3494.4	3069.6	2673.7	2304.9	1896.1	1589.3	1384.3	1246.4	1195.4	1146.5
10°	3528.4	3269.5	2716.7	2168.0	1656.2	1234.4	974.5	786.6	719.7	657.7	663.7
12.5°	3379.4	3064.6	2392.8	1711.2	1160.5	784.6	611.7	534.7	512.8	505.7	505.7
15°	3257.4	2868.7	2045.0	1286.4	795.6	563.8	489.8	468.8	460.8	458.8	458.8
17.5°	3127.5	2682.7	1731.2	950.6	578.7	471.8	446.8	432.8	429.8	427.8	427.8
20°	3011.6	2495.8	1433.4	707.7	467.8	424.8	408.8	399.8	396.8	394.8	395.8
22.5°	2901.6	2329.9	1153.4	534.7	411.8	386.8	370.8	361.8	355.8	350.9	351.8
25°	2803.7	2170.0	927.5	437.8	370.8	348.8	332.9	319.9	306.9	300.8	299.9
27.5°	2734.7	2030.1	722.6	374.8	333.9	309.8	289.9	273.9	256.9	247.9	245.9
30°	2677.7	1888.1	571.7	330.8	296.8	273.9	248.9	225.9	207.9	198.9	194.9
32.5°	2640.7	1753.1	450.8	294.9	265.9	237.9	209.9	186.9	166.9	157.9	155.9
35°	2634.8	1640.2	368.8	264.9	237.9	207.9	178.9	153.9	136.9	127.9	125.9
37.5°	2677.7	1553.2	308.9	240.9	214.9	181.9	149.9	126.9	112.0	104.9	104.0
40°	2792.6	1498.3	267.9	220.9	193.9	157.9	127.9	108.0	92.9	86.0	86.0
42.5°	3011.6	1500.3	240.9	201.9	172.9	134.9	108.9	90.0	77.0	70.9	69.0
45°	3353.4	1568.3	217.9	182.9	152.9	117.0	92.9	74.0	61.0	56.0	56.0
47.5°	3811.2	1703.2	197.9	164.0	134.9	100.0	78.9	60.0	49.0	44.0	44.0
50°	4409.9	1920.1	181.0	147.9	120.0	86.0	64.0	49.0	38.0	34.0	33.0
52.5°	5035.6	2187.9	160.9	134.0	103.0	73.0	52.0	38.0	29.0	26.0	25.0
55°	5726.3	2449.9	142.0	120.0	83.9	61.0	41.0	30.0	21.0	18.0	18.0
57.5°	6422.9	2706.8	118.9	100.0	66.0	44.9	31.9	22.0	14.0	11.0	11.0
60°	7012.7	2789.7	100.9	81.0	50.0	31.9	23.0	14.0	8.0	5.0	5.0
62.5°	7093.7	2509.8	85.0	61.9	36.0	22.0	12.0	8.0	3.0	2.0	2.0
65°	6653.9	2039.0	70.9	47.0	24.0	11.0	5.0	3.0	1.0	0.0	0.0
67°	5962.2	1653.2	57.9	35.0	17.0	7.0	3.0	1.0	0.0	0.0	0.0
67.5°	5785.3	1576.3	56.0	33.0	15.0	6.0	2.0	1.0	0.0	0.0	0.0
70°	4539.8	1180.5	40.0	20.0	9.0	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	2821.7	667.7	29.0	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1066.5	233.9	20.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	331.8	88.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.0	34.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.0	14.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.0	1.0	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)