

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: P321210

Luminaire Tested: **GAN-SA6C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28557 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

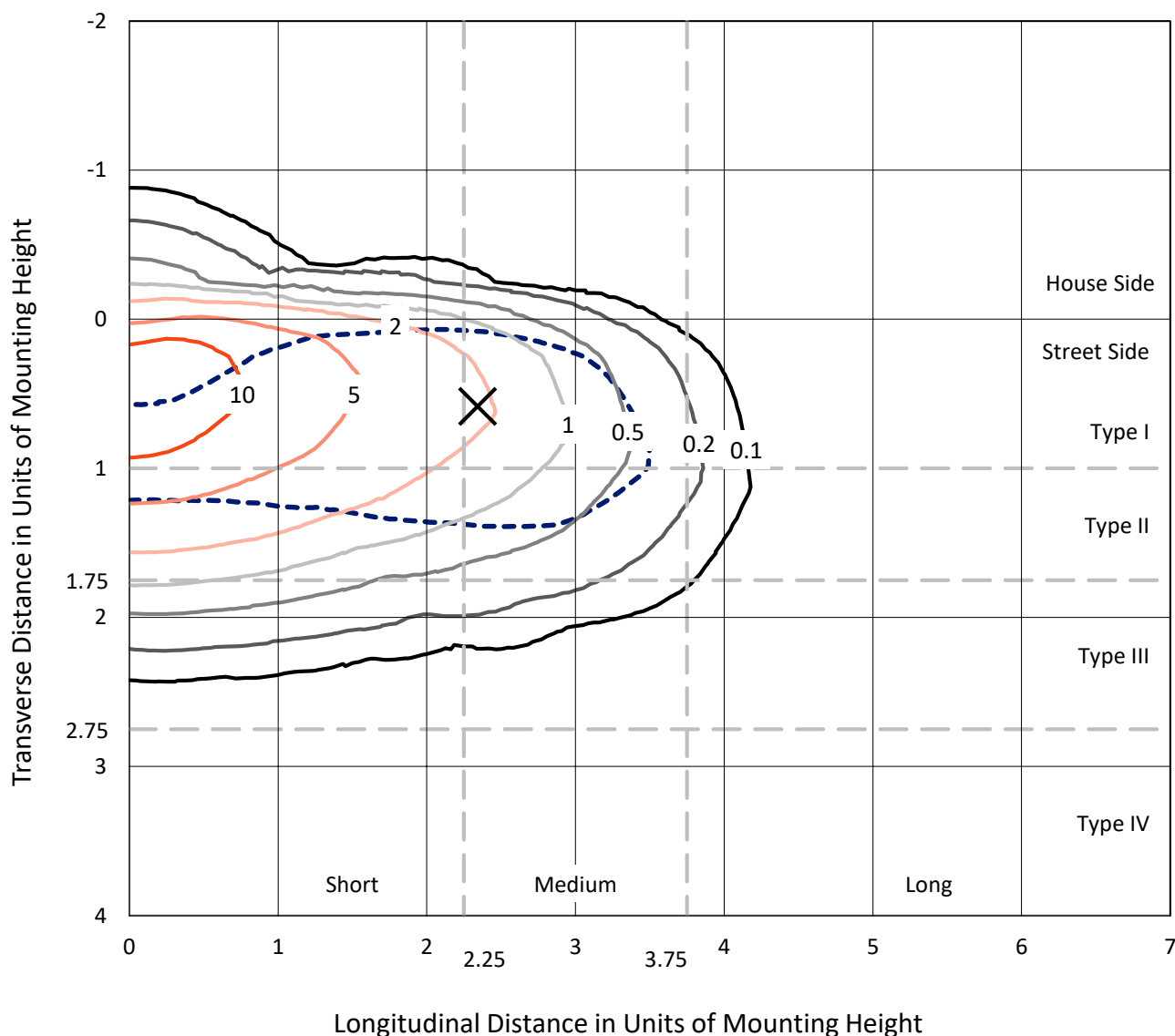
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

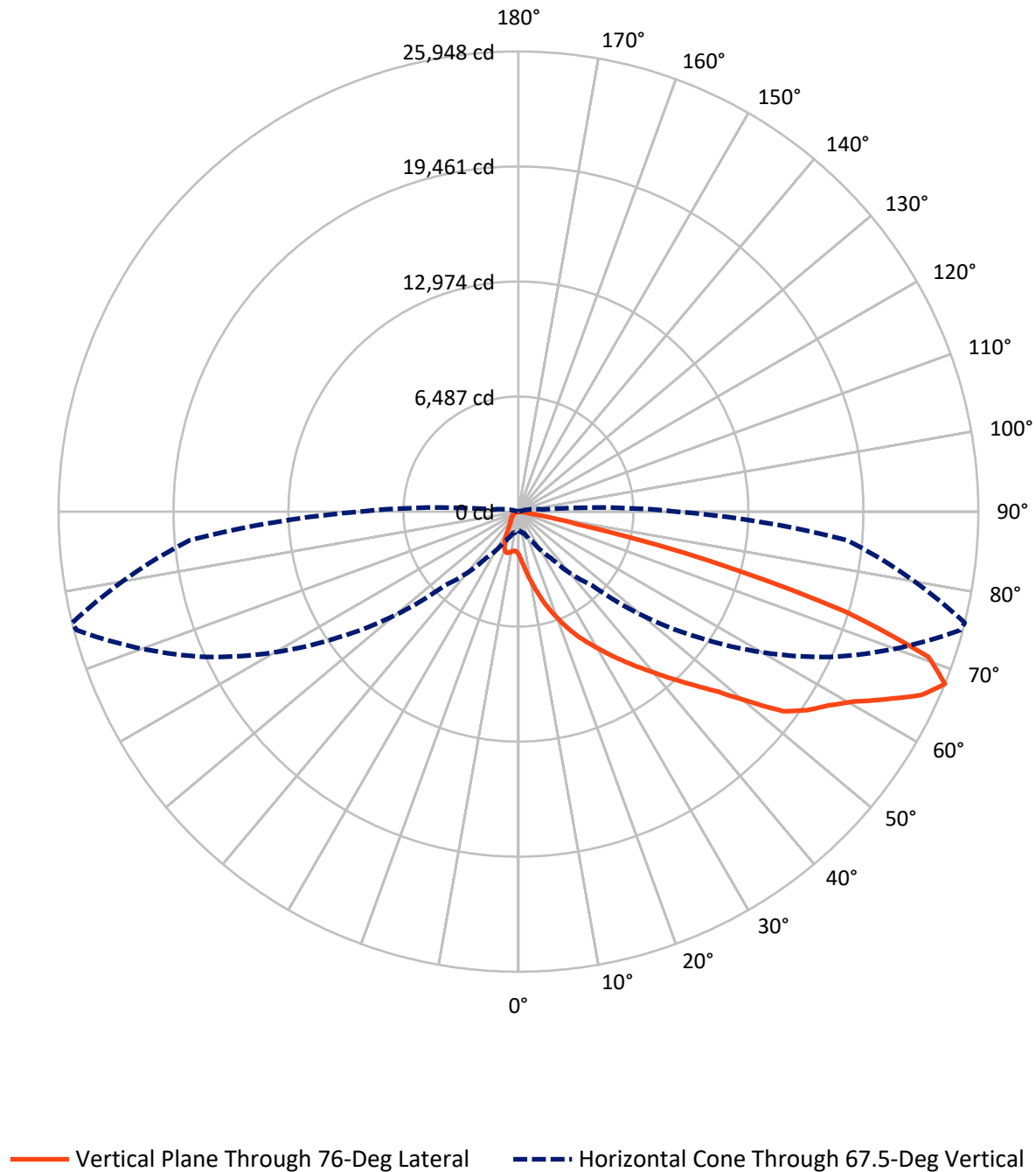
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	1418.1	0.0	1418.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27138.9	0.0	27138.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	28557.0	0.0	28557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	1.1
10°-20°	1194.1	4.2
20°-30°	2429.6	8.5
30°-40°	4217.1	14.8
40°-50°	5958.2	20.9
50°-60°	6756.8	23.7
60°-70°	5604.2	19.6
70°-80°	2030.0	7.1
80°-90°	65.8	0.2
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°	28557.0	100.0
0°-180°	28557.0	100.0

Coefficient of Utilization



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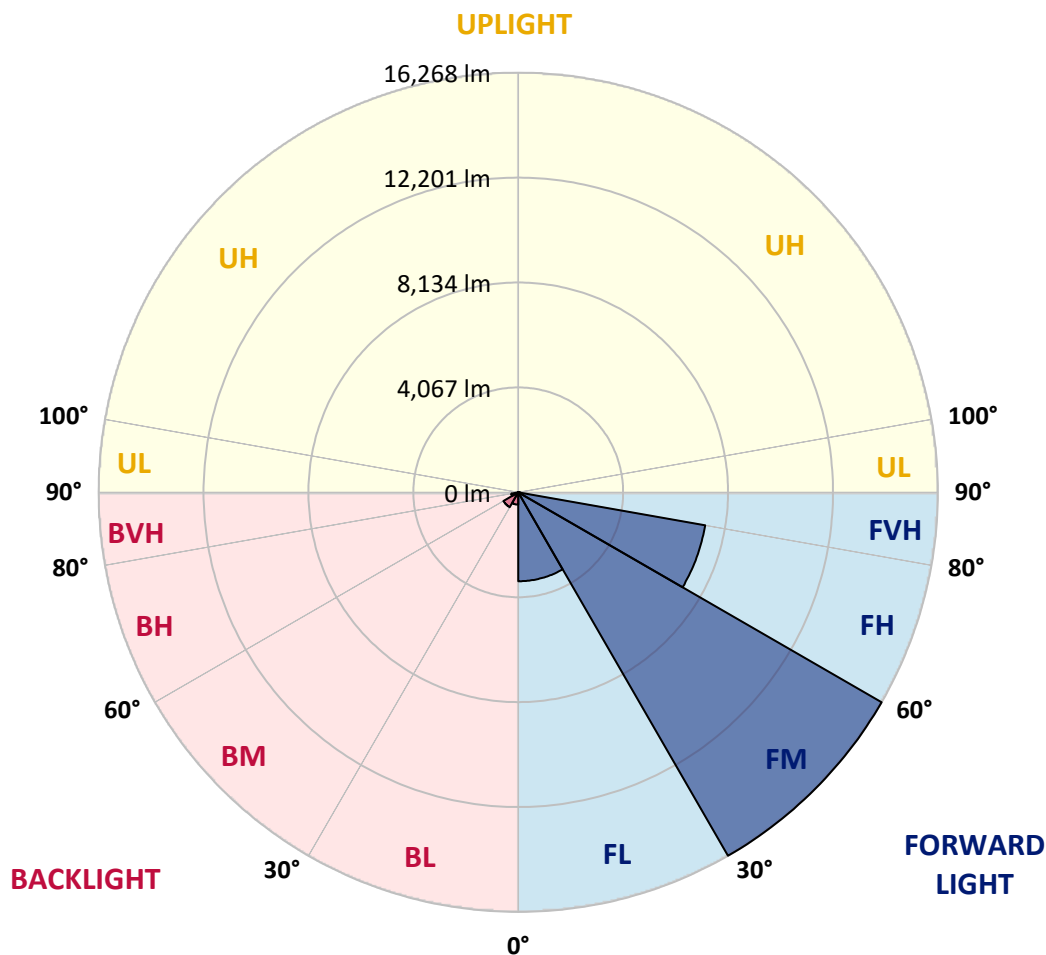
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3446.7	12.1			
FM	(30°-60°)	16268.3	57.0			
FH	(60°-80°)	7360.1	25.8			G3/7500
FVH	(80°-90°)	63.8	0.2			G1/100
BL	(0°-30°)	478.2	1.7	B1/500		
BM	(30°-60°)	663.7	2.3	B1/1000		
BH	(60°-80°)	274.1	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5
2.5°	3616.2	3534.8	3553.6	3501.1	3406.0	3210.8	3044.3	2886.7	2702.7	2696.5	2545.1
5°	4876.2	4807.4	4798.6	4692.3	4519.6	4188.0	3865.2	3497.3	3086.9	3056.9	2735.3
7.5°	6019.9	5964.8	5944.8	5818.4	5496.8	5174.0	4753.6	4213.0	3571.1	3516.1	2991.8
10°	6898.3	6872.0	6877.0	6786.9	6511.6	6211.3	5659.5	4970.0	4120.4	4035.3	3299.6
12.5°	7563.9	7570.2	7615.2	7560.2	7406.3	7183.5	6594.2	5777.1	4728.6	4612.2	3651.2
15°	8053.2	8084.5	8167.0	8235.9	8224.6	8031.9	7491.4	6596.7	5374.2	5245.3	4042.9
17.5°	8369.8	8404.8	8524.9	8677.6	8817.7	8772.7	8357.2	7387.5	6027.4	5878.5	4462.0
20°	8647.5	8688.8	8817.7	9019.2	9280.7	9337.0	9064.2	8154.5	6679.3	6497.9	4895.0
22.5°	9249.4	9248.1	9327.0	9444.6	9693.6	9838.7	9666.1	8866.5	7323.7	7134.7	5336.7
25°	10338.0	10296.7	10269.2	10176.6	10231.6	10321.7	10225.4	9532.2	7971.8	7780.4	5784.6
27.5°	11631.8	11656.8	11434.1	11185.1	10992.4	10899.8	10742.2	10149.1	8595.0	8384.8	6222.6
30°	12997.0	13004.5	12741.7	12423.9	11999.7	11648.1	11375.3	10738.4	9235.6	9006.6	6648.0
32.5°	14228.2	14179.4	13919.1	13486.2	12950.7	12555.3	11988.4	11396.6	9913.8	9692.3	7121.0
35°	15204.2	15146.6	14830.1	14435.9	13880.3	13482.4	12800.5	12053.5	10627.0	10410.6	7595.2
37.5°	15917.4	15849.8	15524.5	15119.1	14639.9	14408.4	13742.7	12768.0	11405.3	11172.6	8094.5
40°	16165.2	16106.4	15902.4	15605.9	15220.5	15167.9	14742.5	13590.1	12252.4	12004.7	8660.0
42.5°	16017.5	15960.0	15887.4	15787.3	15627.1	15677.2	15685.9	14527.3	13193.4	12949.4	9284.4
45°	15431.9	15380.6	15455.7	15602.1	15801.1	16048.8	16546.8	15534.5	14244.5	13984.2	10006.4
47.5°	14569.8	14532.3	14740.0	15105.3	15687.2	16370.4	17333.9	16593.1	15424.4	15182.9	10907.3
50°	13343.6	13337.3	13752.7	14419.6	15314.3	16525.5	18147.2	17796.8	17063.6	16809.6	12159.9
52.5°	11434.1	11446.6	12263.7	13331.0	14659.9	16420.4	18670.2	19343.4	18970.5	18706.5	13244.7
55°	9616.0	9691.1	10270.4	11809.5	13656.4	16030.0	18850.4	20065.4	20022.8	19772.6	13847.8
57.5°	7835.5	7971.8	8529.9	9967.6	12191.1	15130.4	18751.5	20378.2	20806.1	20614.7	14643.6
60°	5906.0	5968.6	6611.7	7955.6	10310.5	13488.7	18034.6	20548.4	21877.2	21744.6	15798.5
62.5°	3757.6	3914.0	4484.6	5780.9	8028.2	11208.9	16825.8	20545.9	23217.3	23289.9	17288.8
65°	1979.5	2162.2	2465.0	3582.4	5516.9	8662.5	15007.7	20353.2	24861.5	24962.9	18453.7
67.5°	1067.3	1119.9	1280.1	1859.4	3199.5	5868.5	12336.3	19402.2	25813.7	25947.6	18616.4
70°	780.8	809.6	869.6	1028.5	1610.4	3408.5	9001.6	17246.3	24586.2	24536.2	16540.6
72.5°	599.4	644.4	689.5	753.3	925.9	1819.3	5604.4	13505.0	19617.4	19287.1	12363.8
75°	473.0	480.5	544.3	601.9	694.5	1036.1	2488.8	7865.5	11973.4	11191.4	6411.5
77.5°	377.9	382.9	420.4	470.5	558.1	680.7	770.8	3094.4	3822.6	3411.0	1391.4
80°	224.0	236.5	312.8	362.9	463.0	429.2	281.5	671.9	596.9	540.5	234.0
82.5°	125.1	135.1	176.4	286.5	322.8	205.2	140.1	181.4	140.1	136.4	66.3
85°	0.0	6.3	113.9	177.7	131.4	45.0	58.8	60.1	41.3	38.8	26.3
87.5°	0.0	0.0	35.0	33.8	5.0	7.5	13.8	20.0	16.3	16.3	13.8
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°	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5
2.5°	2470.0	2402.4	2274.8	2149.7	2044.6	1958.2	1880.7	1849.4	1824.4	1820.6	1800.6
5°	2580.1	2443.7	2199.7	1999.5	1865.6	1770.5	1689.2	1639.2	1600.4	1585.4	1571.6
7.5°	2746.5	2540.1	2189.7	1959.5	1799.3	1639.2	1489.0	1326.3	1225.0	1186.2	1163.7
10°	2949.2	2667.7	2227.3	1948.2	1667.9	1330.1	1081.1	874.6	790.8	763.3	755.8
12.5°	3185.7	2826.6	2292.3	1878.2	1387.7	944.7	745.8	675.7	656.9	648.2	648.2
15°	3457.3	3000.5	2338.6	1675.5	1026.0	714.5	645.7	613.1	593.1	581.8	583.1
17.5°	3735.0	3170.7	2316.1	1381.4	757.0	635.6	584.3	549.3	521.8	510.5	508.0
20°	4015.3	3328.4	2191.0	1028.5	640.7	576.8	519.3	480.5	453.0	441.7	439.2
22.5°	4305.6	3462.3	1970.8	754.5	575.6	511.8	455.5	416.7	390.4	380.4	375.4
25°	4588.4	3571.1	1662.9	610.6	514.3	450.5	396.7	360.4	336.6	326.6	325.3
27.5°	4852.4	3639.9	1306.3	539.3	460.5	395.4	346.6	314.1	294.0	286.5	285.3
30°	5090.2	3646.2	966.0	486.7	412.9	347.9	302.8	274.0	256.5	249.0	246.5
32.5°	5330.4	3593.7	703.2	439.2	369.1	306.6	262.8	240.2	227.7	221.5	221.5
35°	5556.9	3472.3	548.1	397.9	326.6	266.5	231.5	215.2	207.7	201.5	201.5
37.5°	5778.4	3298.4	465.5	361.6	286.5	232.7	204.0	193.9	187.7	181.4	181.4
40°	6003.6	3079.4	422.9	327.8	254.0	206.5	181.4	172.7	166.4	161.4	160.2
42.5°	6280.1	2826.6	395.4	296.6	225.2	182.7	160.2	150.2	145.1	140.1	137.6
45°	6600.5	2608.9	372.9	265.3	201.5	162.7	138.9	128.9	121.4	115.1	113.9
47.5°	7062.2	2451.2	342.8	231.5	178.9	141.4	120.1	108.9	97.6	91.3	90.1
50°	7651.5	2321.1	304.1	201.5	156.4	120.1	100.1	86.3	76.3	70.1	70.1
52.5°	7944.3	2150.9	269.0	175.2	131.4	101.4	81.3	65.1	60.1	53.8	53.8
55°	8061.9	2020.8	234.0	148.9	108.9	83.8	63.8	50.1	46.3	42.5	41.3
57.5°	8392.3	1983.3	204.0	126.4	90.1	66.3	48.8	37.5	35.0	30.0	30.0
60°	8924.1	2002.0	176.4	107.6	72.6	51.3	36.3	28.8	26.3	21.3	21.3
62.5°	9498.4	1978.3	148.9	92.6	56.3	37.5	25.0	21.3	21.3	12.5	11.3
65°	9608.5	1761.8	127.6	76.3	43.8	27.5	16.3	13.8	18.8	2.5	0.0
67.5°	8917.8	1366.4	110.1	58.8	32.5	21.3	12.5	6.3	16.3	0.0	0.0
70°	7131.0	868.4	88.8	42.5	25.0	17.5	10.0	2.5	12.5	0.0	0.0
72.5°	5042.6	504.3	70.1	30.0	21.3	13.8	7.5	0.0	7.5	0.0	0.0
75°	2550.1	269.0	43.8	22.5	16.3	10.0	5.0	0.0	1.3	0.0	0.0
77.5°	551.8	125.1	27.5	16.3	11.3	6.3	2.5	0.0	0.0	0.0	0.0
80°	120.1	55.1	17.5	10.0	6.3	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	43.8	28.8	8.8	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	15.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	1.3	1.3	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)