

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: P321780

Luminaire Tested: **GAN-SA6D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28362 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

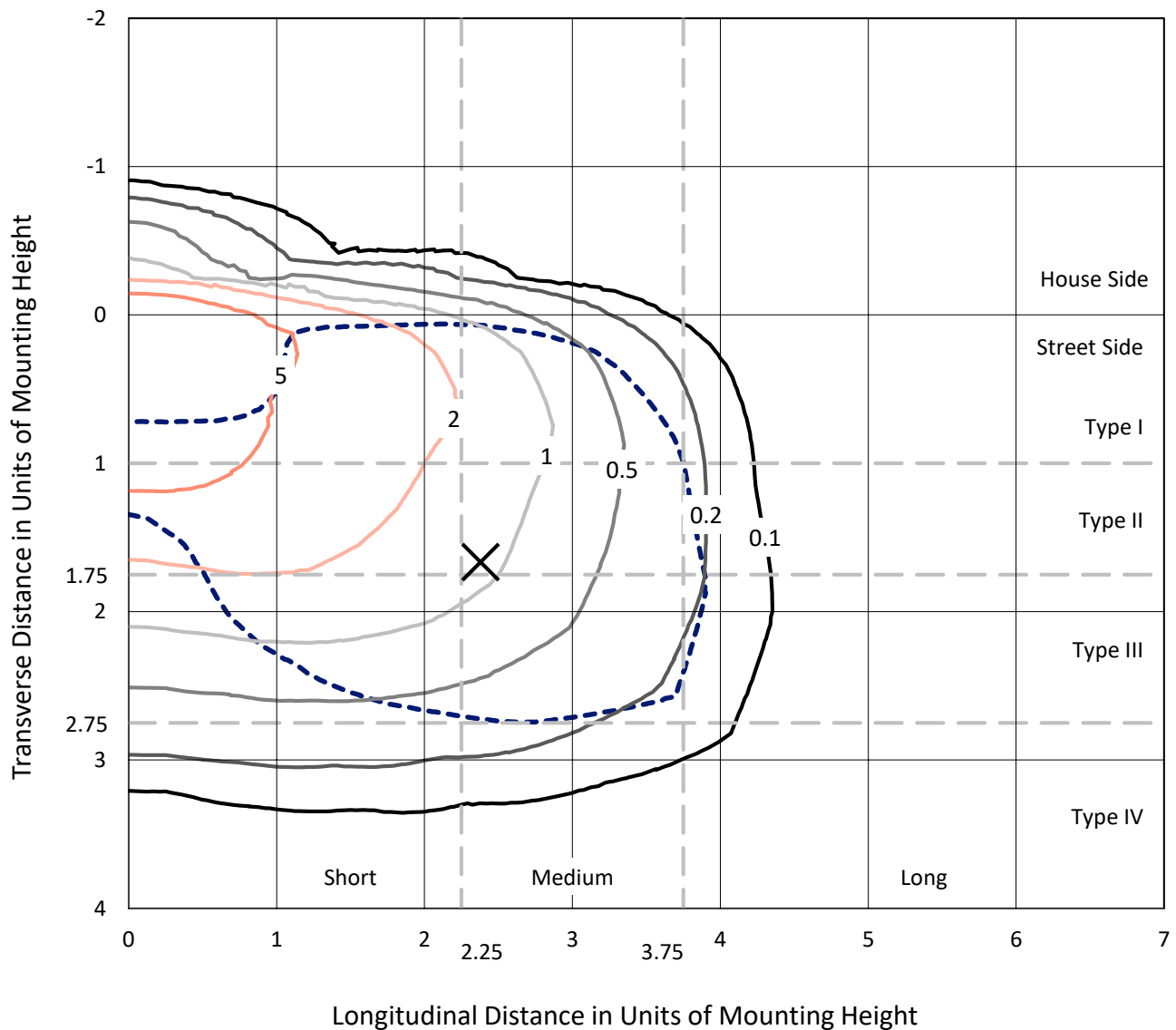
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

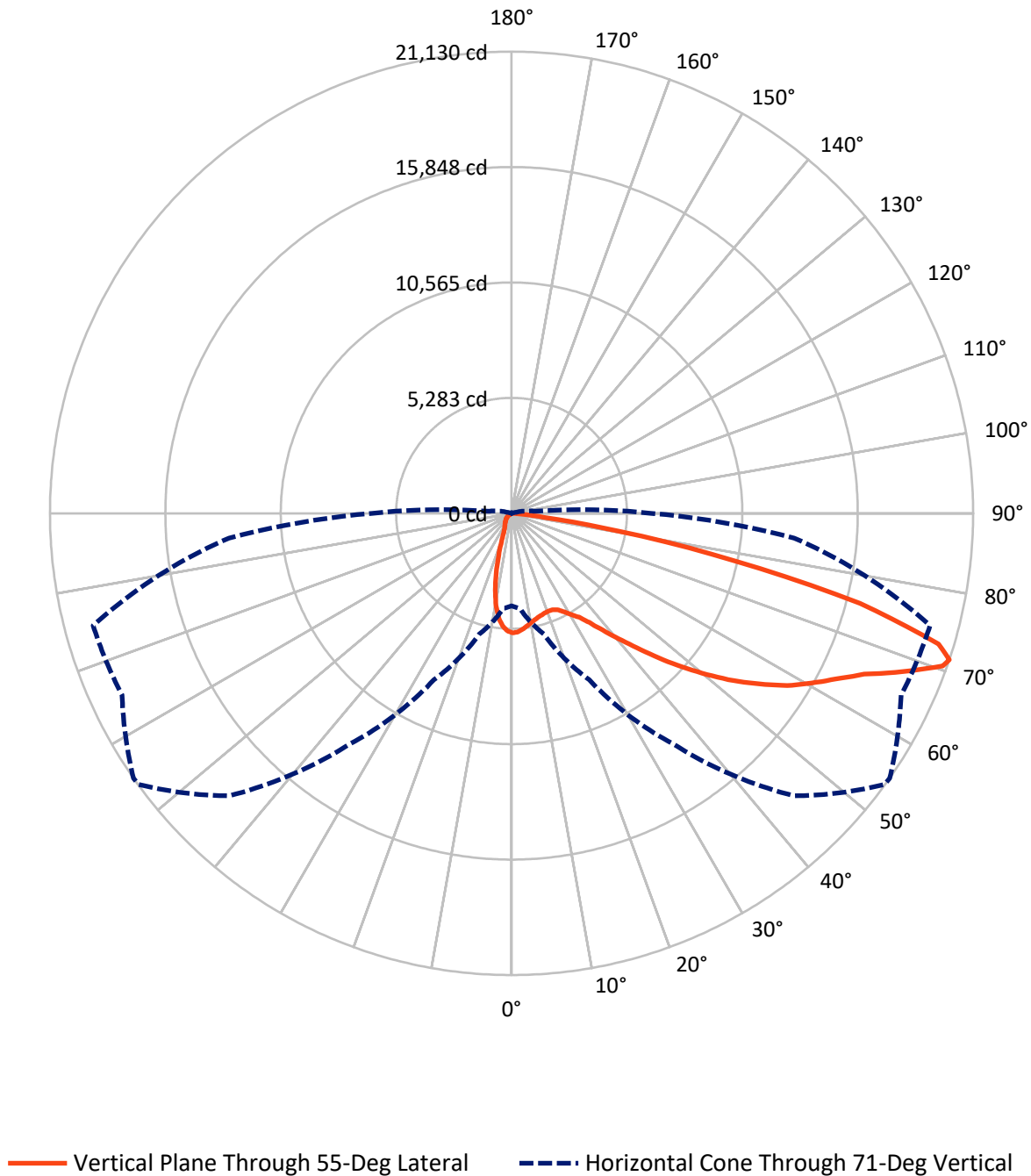
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.5	0.0	2245.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26116.5	0.0	26116.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	28362.0	0.0	28362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	1.6
10°-20°	1052.9	3.7
20°-30°	1692.0	6.0
30°-40°	2874.8	10.1
40°-50°	4462.0	15.7
50°-60°	5999.0	21.2
60°-70°	7338.8	25.9
70°-80°	4290.8	15.1
80°-90°	185.5	0.7
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°	28362.0	100.0
0°-180°	28362.0	100.0

Coefficient of Utilization



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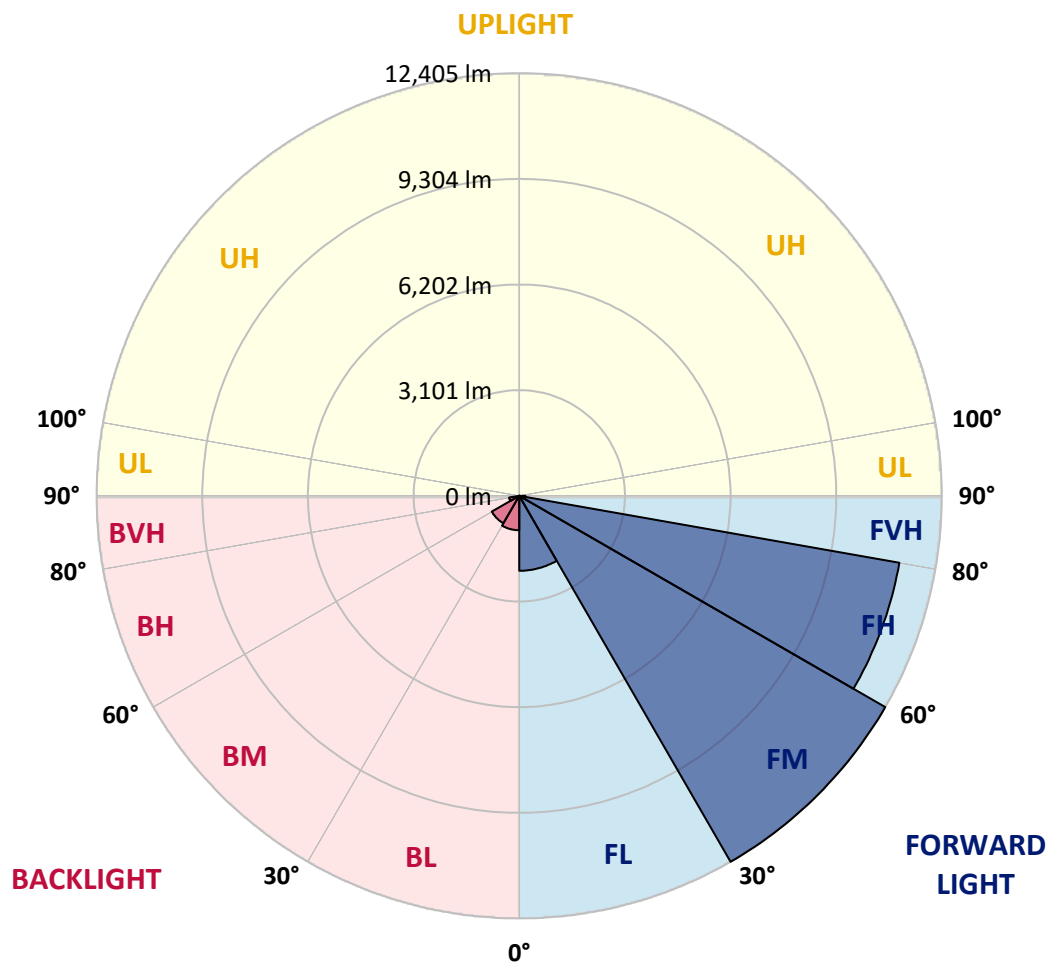
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2200.5	7.8			
FM	(30°-60°)	12404.7	43.7			
FH	(60°-80°)	11328.7	39.9			G4/12000
FVH	(80°-90°)	182.6	0.6			G2/225
BL	(0°-30°)	1010.7	3.6	B3/2500		
BM	(30°-60°)	931.0	3.3	B1/1000		
BH	(60°-80°)	300.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7
2.5°	5309.3	5315.6	5338.5	5348.7	5372.9	5413.7	5434.1	5435.3	5468.4	5481.2	5491.4
5°	4933.6	4971.8	5010.0	5050.7	5124.6	5222.7	5319.4	5328.4	5435.3	5514.3	5556.3
7.5°	4610.1	4644.5	4690.3	4755.3	4859.7	5013.8	5175.5	5194.6	5397.1	5576.7	5670.9
10°	4277.7	4305.7	4372.0	4467.5	4611.4	4817.7	5035.4	5067.3	5362.7	5660.7	5826.3
12.5°	3922.4	3939.0	4019.2	4156.7	4368.1	4630.5	4917.0	4959.0	5341.1	5757.5	6009.7
15°	3652.4	3660.1	3736.5	3879.1	4121.1	4462.4	4825.3	4876.3	5346.2	5873.4	6209.6
17.5°	3583.6	3587.5	3628.2	3726.3	3940.2	4312.1	4752.7	4815.1	5361.5	5986.8	6410.8
20°	3862.5	3835.8	3793.8	3778.5	3870.2	4221.7	4709.4	4779.5	5381.8	6087.4	6591.7
22.5°	4627.9	4549.0	4374.5	4141.4	4000.1	4228.0	4720.9	4790.9	5446.8	6210.9	6800.5
25°	5763.9	5654.4	5357.6	4899.2	4458.5	4411.4	4816.4	4887.7	5572.9	6358.6	7000.5
27.5°	7056.5	6948.3	6585.3	5930.7	5179.4	4774.4	5035.4	5101.7	5760.1	6489.8	7153.3
30°	8294.4	8263.8	7835.9	7092.2	6086.1	5362.7	5318.2	5374.2	5898.9	6568.8	7274.3
32.5°	9343.7	9295.3	8951.5	8228.1	7124.0	6069.5	5650.6	5667.1	6003.3	6670.6	7432.2
35°	10316.7	10256.8	9955.0	9271.1	8188.7	6933.0	6162.5	6138.3	6231.3	6875.7	7661.4
37.5°	11166.1	11220.9	10885.9	10235.2	9143.8	7830.8	6852.7	6780.2	6587.9	7209.3	7993.8
40°	11876.7	11876.7	11702.3	11159.7	10175.3	8759.2	7633.4	7537.9	7124.0	7723.8	8415.3
42.5°	12132.7	12187.5	12252.4	11945.5	11098.6	9724.5	8503.2	8403.9	7879.2	8453.5	8947.7
45°	12148.0	12234.6	12567.0	12565.7	11932.8	10683.5	9483.8	9436.7	8847.1	9390.8	9607.3
47.5°	11932.8	12041.0	12588.6	12899.4	12593.7	11576.2	10556.1	10497.5	9984.3	10539.5	10297.6
50°	11600.4	11720.1	12356.8	13030.5	13043.3	12353.0	11685.7	11597.8	11236.2	11852.5	11010.7
52.5°	11005.6	11237.4	12149.3	13061.1	13338.7	13024.2	12760.5	12722.3	12637.0	13117.1	11578.7
55°	9733.4	9990.7	11628.4	13071.3	13612.5	13618.9	13767.9	13778.1	13950.0	14298.9	12001.5
57.5°	9132.3	9277.5	10719.1	13119.7	14018.8	14293.8	14794.3	14873.3	15139.5	15420.9	12484.2
60°	8754.1	8926.0	10270.8	13053.4	14656.8	15178.9	15745.6	15772.4	16057.7	16578.5	13137.5
62.5°	8452.3	8621.6	9988.1	12798.7	15373.8	16243.6	16675.3	16677.9	16891.8	17957.7	13880.0
65°	7707.3	7849.9	9416.3	12512.2	15847.5	17296.8	17755.2	17738.7	17913.2	19412.1	14742.1
67.5°	6629.9	6739.4	8248.5	11425.9	15669.2	18254.5	19385.3	19330.6	19119.2	20669.0	15080.9
70°	5125.9	5165.3	6501.3	9522.0	13998.4	18622.5	20960.7	20932.6	19859.1	20443.6	13839.2
71°	4237.0	4366.9	5729.5	8403.9	12879.0	18282.5	21113.5	21130.0	19673.1	19829.8	12984.7
72.5°	2460.4	2571.2	4152.9	6454.1	10934.3	16863.8	20321.4	20441.1	18804.6	18036.7	11091.0
75°	527.2	564.2	1539.7	3123.9	6014.8	11819.4	16039.8	16466.4	15326.7	12270.2	6684.6
77.5°	366.8	396.1	659.7	1417.4	1987.9	5840.3	9963.9	10445.3	9156.5	4611.4	2139.5
80°	290.4	323.5	514.5	700.4	537.4	1883.5	4667.4	4961.6	3053.9	1029.0	360.4
82.5°	161.7	192.3	401.2	378.2	206.3	357.9	1306.6	1477.3	611.3	207.6	85.3
85°	47.1	57.3	258.5	275.1	87.9	68.8	222.9	276.4	115.9	54.8	38.2
87.5°	0.0	0.0	124.8	105.7	25.5	10.2	20.4	22.9	22.9	22.9	25.5
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°	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7
2.5°	5491.4	5500.3	5468.4	5426.4	5381.8	5327.1	5269.8	5225.2	5223.9	5202.3	5180.6
5°	5558.9	5553.8	5465.9	5332.2	5174.3	5010.0	4853.3	4676.3	4617.7	4545.1	4521.0
7.5°	5683.7	5648.0	5462.1	5169.2	4822.8	4478.9	4123.6	3765.8	3612.9	3475.4	3451.2
10°	5840.3	5772.8	5437.9	4924.7	4289.2	3655.0	3118.8	2632.3	2418.4	2254.1	2246.5
12.5°	6003.3	5900.2	5370.4	4555.3	3590.0	2698.6	2080.9	1602.1	1423.8	1309.2	1319.4
15°	6174.0	6019.9	5225.2	4057.4	2794.1	1831.3	1278.6	997.2	925.8	896.5	904.2
17.5°	6348.4	6102.6	5022.7	3457.6	2008.3	1181.8	885.1	806.1	806.1	812.5	815.0
20°	6500.0	6147.2	4724.7	2785.2	1361.4	860.9	774.3	762.8	769.2	779.4	780.7
22.5°	6650.3	6149.8	4336.3	2103.8	952.6	753.9	737.4	732.3	736.1	747.5	748.8
25°	6772.5	6119.2	3849.8	1496.4	760.3	710.6	703.0	700.4	703.0	717.0	717.0
27.5°	6822.2	6008.4	3256.4	1051.9	681.3	662.2	659.7	662.2	666.0	676.2	677.5
30°	6827.3	5814.8	2609.4	761.6	617.7	597.3	602.4	611.3	607.5	604.9	607.5
32.5°	6840.0	5590.7	1979.0	626.6	564.2	532.3	526.0	526.0	510.7	501.8	496.7
35°	6882.0	5327.1	1435.2	562.9	509.4	472.5	448.3	420.3	391.0	375.7	371.9
37.5°	6948.3	5050.7	1027.7	520.9	461.0	419.0	373.1	323.5	281.4	270.0	270.0
40°	7069.2	4765.5	760.3	487.8	422.8	370.6	301.8	236.9	198.7	192.3	192.3
42.5°	7260.3	4464.9	606.2	458.5	389.7	320.9	230.5	171.9	143.9	140.1	138.8
45°	7458.9	4133.8	529.8	430.4	354.0	263.6	170.6	127.4	110.8	107.0	107.0
47.5°	7657.6	3781.0	492.8	403.7	319.7	205.0	127.4	100.6	93.0	93.0	94.2
50°	7825.7	3413.0	466.1	374.4	275.1	155.4	100.6	85.3	82.8	87.9	89.1
52.5°	7867.7	3051.3	433.0	337.5	220.3	118.4	82.8	75.1	75.1	75.1	75.1
55°	7842.3	2771.2	389.7	291.6	163.0	94.2	71.3	66.2	64.9	64.9	64.9
57.5°	7928.9	2605.6	312.0	226.7	117.2	76.4	62.4	58.6	56.0	54.8	54.8
60°	8103.3	2497.3	222.9	163.0	87.9	63.7	53.5	49.7	45.8	43.3	43.3
62.5°	8335.1	2403.1	165.6	121.0	67.5	50.9	44.6	40.8	35.7	33.1	33.1
65°	8513.4	2235.0	126.1	90.4	50.9	40.8	34.4	33.1	25.5	22.9	21.6
67.5°	8240.9	1865.7	101.9	66.2	38.2	31.8	26.7	25.5	15.3	12.7	12.7
70°	7068.0	1299.0	81.5	48.4	28.0	25.5	21.6	16.6	11.5	10.2	10.2
71°	6409.6	1085.0	73.9	40.8	24.2	24.2	20.4	14.0	10.2	8.9	8.9
72.5°	5324.5	770.5	62.4	31.8	21.6	25.5	21.6	12.7	10.2	8.9	7.6
75°	3090.8	322.2	43.3	21.6	16.6	30.6	28.0	11.5	7.6	6.4	6.4
77.5°	929.7	118.4	24.2	14.0	12.7	26.7	31.8	10.2	3.8	1.3	1.3
80°	169.4	50.9	15.3	8.9	8.9	16.6	24.2	5.1	0.0	0.0	0.0
82.5°	59.9	25.5	8.9	5.1	3.8	7.6	11.5	0.0	0.0	0.0	0.0
85°	34.4	17.8	5.1	2.5	0.0	1.3	2.5	0.0	0.0	0.0	0.0
87.5°	22.9	5.1	0.0	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)