

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: P321291

Luminaire Tested: **GAN-SA7C-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321291
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-SA7C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 40382 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

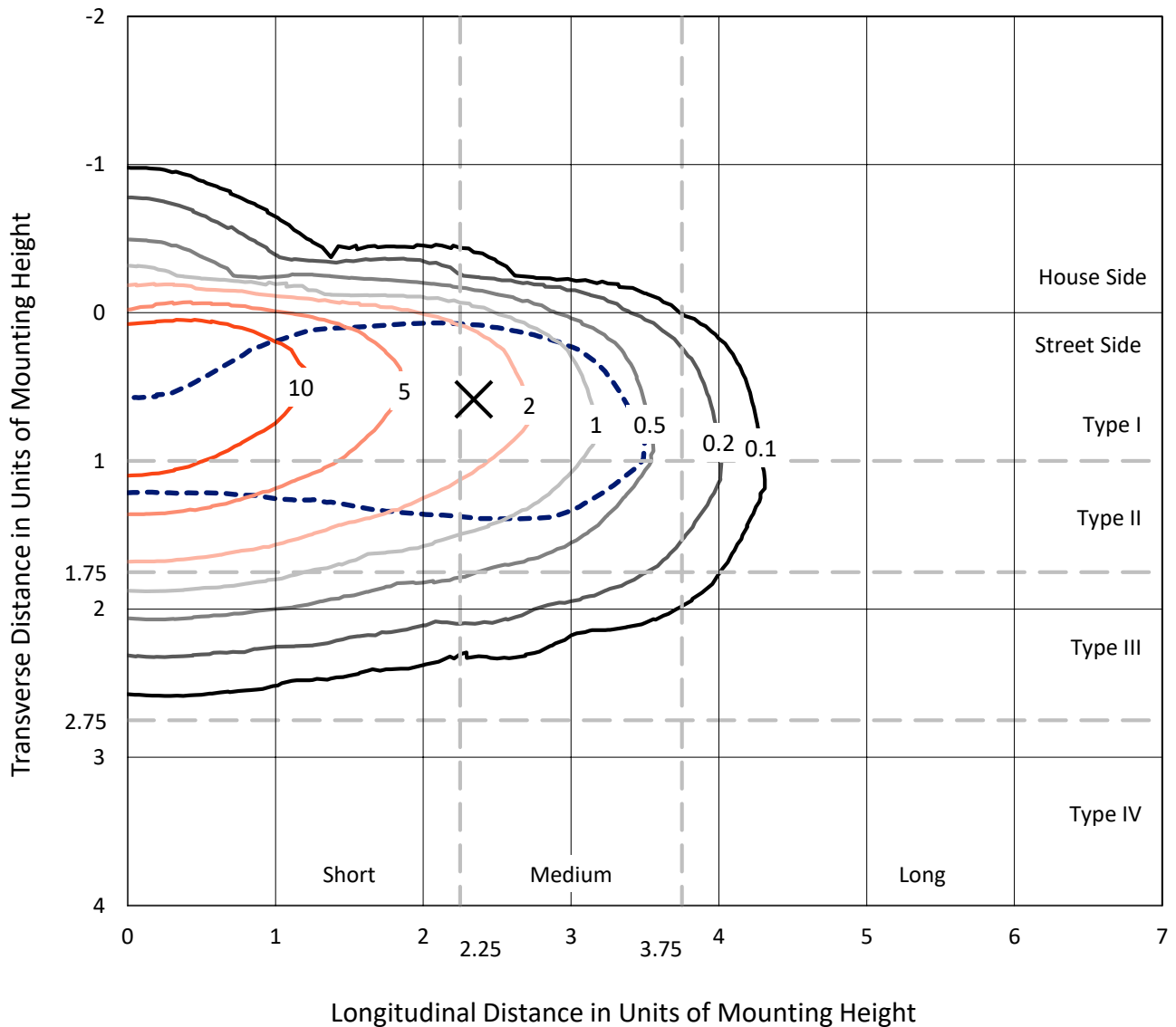
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

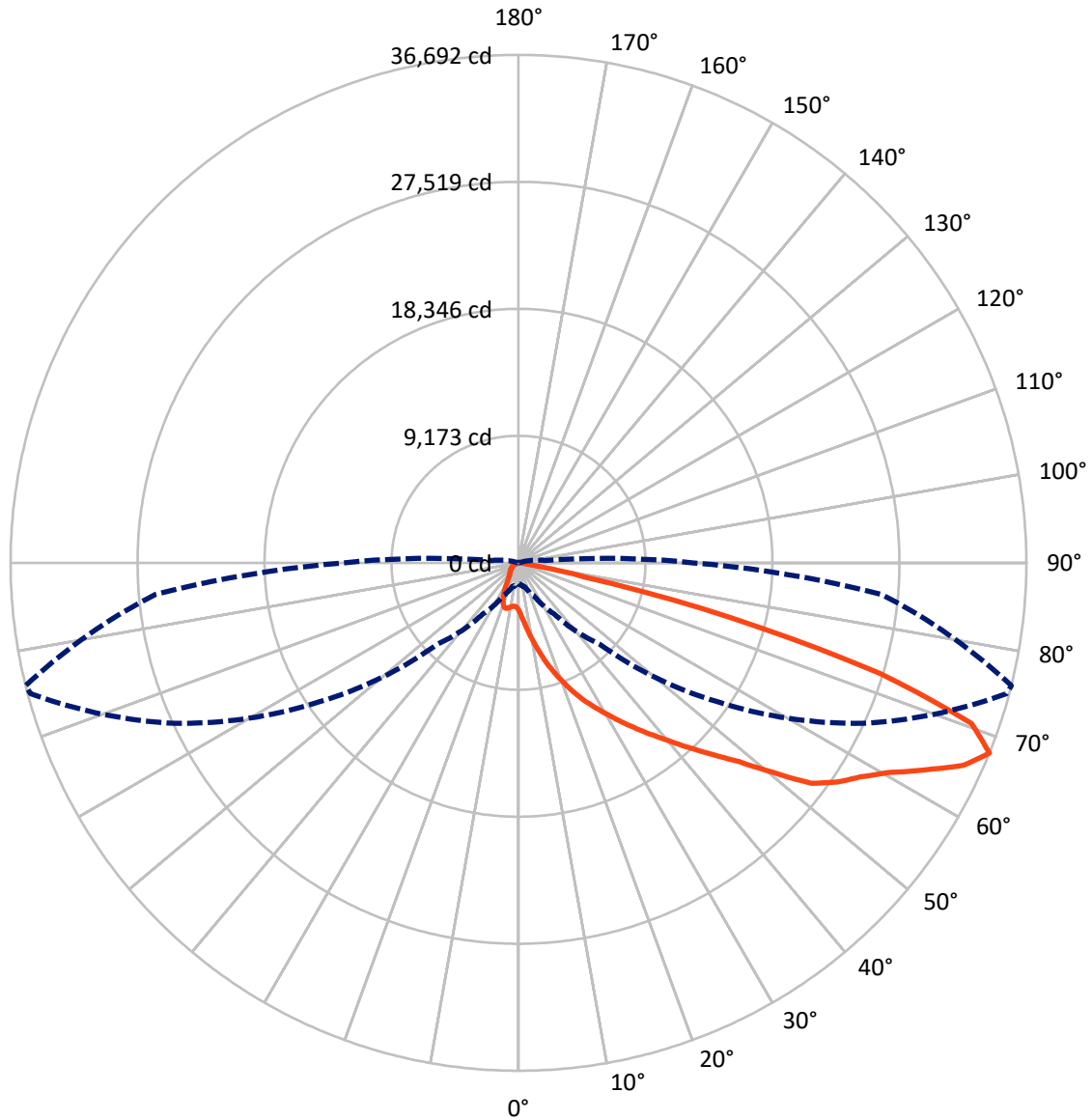
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GAN-SA7C-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.3	0.0	2005.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	38376.7	0.0	38376.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	40382.0	0.0	40382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.1
10°-20°	1688.6	4.2
20°-30°	3435.7	8.5
30°-40°	5963.3	14.8
40°-50°	8425.3	20.9
50°-60°	9554.7	23.7
60°-70°	7924.7	19.6
70°-80°	2870.6	7.1
80°-90°	93.1	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°	40382.0	100.0
0°-180°	40382.0	100.0

Coefficient of Utilization

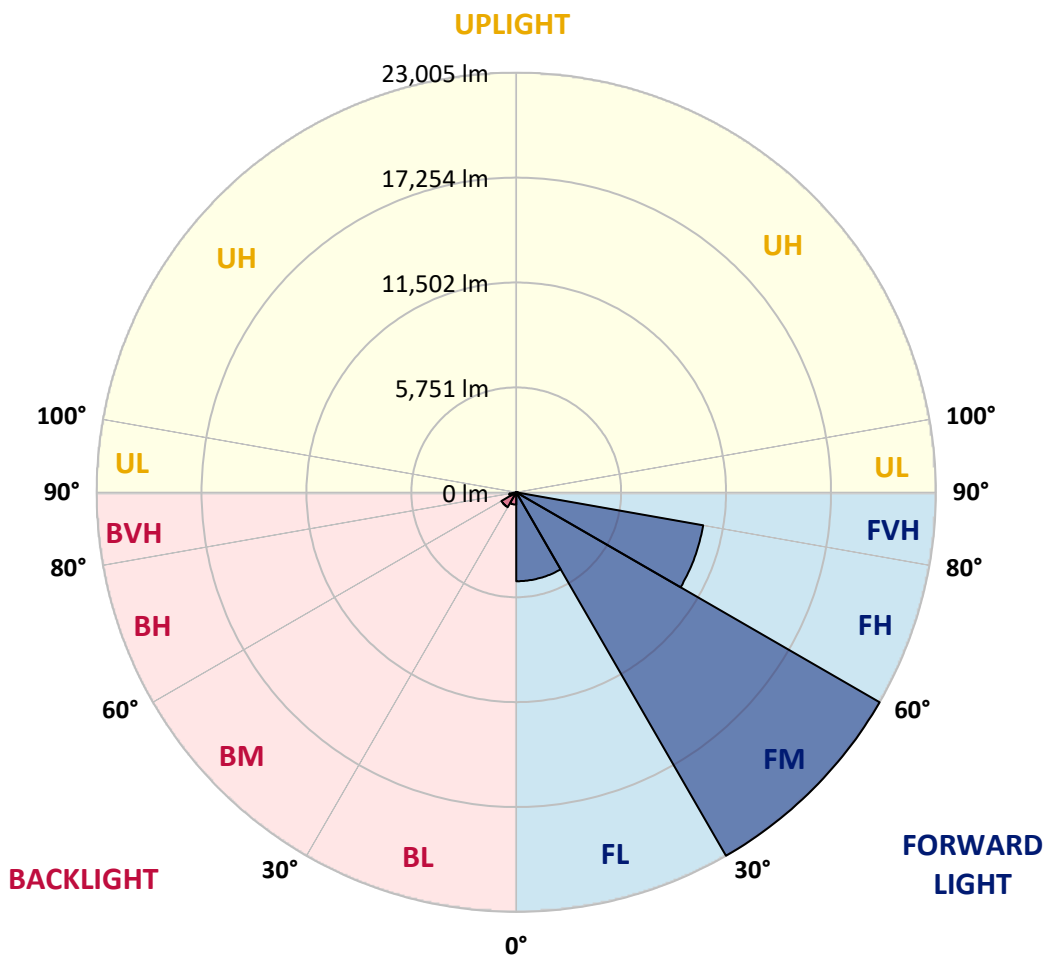


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4874.0	12.1			
FM (30°-60°)	23004.8	57.0			
FH (60°-80°)	10407.8	25.8			G4/12000
FVH (80°-90°)	90.2	0.2			G1/100
BL (0°-30°)	676.3	1.7	B2/1000		
BM (30°-60°)	938.5	2.3	B1/1000		
BH (60°-80°)	387.5	1.0	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: B2-U0-G4
 Type II Medium





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CATALOG NUMBER: GAN-SA7C-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6
2.5°	5113.6	4998.6	5025.1	4950.8	4816.3	4540.3	4305.0	4082.0	3821.9	3813.1	3599.0
5°	6895.4	6798.0	6785.7	6635.3	6391.1	5922.2	5465.7	4945.5	4365.1	4322.7	3867.9
7.5°	8512.6	8434.7	8406.4	8227.7	7773.0	7316.5	6722.0	5957.6	5049.9	4972.0	4230.6
10°	9754.7	9717.6	9724.6	9597.2	9208.0	8783.3	8003.0	7028.1	5826.6	5706.3	4665.9
12.5°	10696.0	10704.9	10768.6	10690.7	10473.1	10158.1	9324.8	8169.3	6686.6	6522.0	5163.1
15°	11387.9	11432.1	11548.9	11646.2	11630.3	11357.8	10593.4	9328.3	7599.6	7417.3	5716.9
17.5°	11835.5	11885.1	12054.9	12270.8	12469.0	12405.3	11817.8	10446.6	8523.2	8312.7	6309.7
20°	12228.3	12286.7	12469.0	12753.9	13123.7	13203.3	12817.6	11531.2	9445.1	9188.5	6921.9
22.5°	13079.4	13077.7	13189.1	13355.4	13707.6	13912.8	13668.6	12538.0	10356.3	10089.1	7546.5
25°	14618.8	14560.4	14521.5	14390.6	14468.4	14595.8	14459.6	13479.3	11272.9	11002.1	8179.9
27.5°	16448.4	16483.8	16168.8	15816.7	15544.2	15413.3	15190.3	14351.6	12154.0	11856.8	8799.2
30°	18378.8	18389.4	18017.8	17568.4	16968.6	16471.4	16085.6	15185.0	13060.0	12736.2	9400.8
32.5°	20119.9	20050.9	19682.8	19070.6	18313.3	17754.2	16952.6	16115.7	14019.0	13705.8	10069.7
35°	21500.0	21418.6	20971.0	20413.6	19628.0	19065.3	18101.0	17044.7	15027.5	14721.4	10740.3
37.5°	22508.6	22413.0	21953.0	21379.7	20702.0	20374.7	19433.3	18055.0	16128.1	15799.0	11446.3
40°	22858.9	22775.7	22487.3	22068.0	21523.0	21448.7	20847.1	19217.5	17326.0	16975.6	12246.0
42.5°	22650.1	22568.7	22466.1	22324.6	22098.1	22168.8	22181.2	20542.8	18656.6	18311.5	13129.0
45°	21822.0	21749.5	21855.7	22062.7	22344.0	22694.4	23398.6	21967.1	20142.9	19774.8	14149.9
47.5°	20602.9	20549.8	20843.6	21360.2	22183.0	23149.1	24511.5	23464.0	21811.4	21469.9	15423.9
50°	18868.9	18860.1	19447.5	20390.6	21655.7	23368.5	25661.6	25166.2	24129.3	23770.2	17195.1
52.5°	16168.8	16186.5	17341.9	18851.2	20730.3	23219.9	26401.3	27353.2	26825.9	26452.6	18729.1
55°	13597.9	13704.0	14523.3	16699.6	19311.3	22667.8	26656.0	28374.1	28314.0	27960.1	19582.0
57.5°	11080.0	11272.9	12062.0	14095.1	17239.3	21395.6	26516.3	28816.5	29421.6	29150.9	20707.3
60°	8351.6	8440.0	9349.5	11249.9	14579.9	19074.2	25502.4	29057.1	30936.2	30748.7	22340.5
62.5°	5313.5	5534.7	6341.5	8174.6	11352.5	15850.3	23793.2	29053.6	32831.3	32933.9	24447.8
65°	2799.2	3057.5	3485.7	5065.8	7801.3	12249.6	21222.2	28781.1	35156.3	35299.6	26095.1
67.5°	1509.3	1583.6	1810.1	2629.3	4524.4	8298.5	17444.5	27436.4	36502.8	36692.1	26325.2
70°	1104.1	1144.8	1229.7	1454.4	2277.2	4819.9	12729.1	24387.7	34767.0	34696.2	23389.7
72.5°	847.5	911.2	974.9	1065.2	1309.4	2572.7	7925.2	19097.2	27740.7	27273.6	17483.5
75°	668.8	679.5	769.7	851.1	982.0	1465.1	3519.3	11122.5	16931.4	15825.5	9066.4
77.5°	534.4	541.4	594.5	665.3	789.2	962.6	1090.0	4375.7	5405.5	4823.4	1967.6
80°	316.7	334.4	442.4	513.1	654.7	606.9	398.1	950.2	844.0	764.4	330.9
82.5°	176.9	191.1	249.5	405.2	456.5	290.2	198.2	256.6	198.2	192.9	93.8
85°	0.0	8.8	161.0	251.3	185.8	63.7	83.2	84.9	58.4	54.9	37.2
87.5°	0.0	0.0	49.5	47.8	7.1	10.6	19.5	28.3	23.0	23.0	19.5
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°	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6
2.5°	3492.8	3397.3	3216.8	3039.8	2891.2	2769.1	2659.4	2615.2	2579.8	2574.5	2546.2
5°	3648.5	3455.6	3110.6	2827.5	2638.2	2503.7	2388.7	2317.9	2263.1	2241.8	2222.4
7.5°	3883.8	3591.9	3096.5	2770.9	2544.4	2317.9	2105.6	1875.6	1732.2	1677.4	1645.5
10°	4170.5	3772.4	3149.5	2755.0	2358.6	1880.9	1528.8	1236.8	1118.3	1079.3	1068.7
12.5°	4504.9	3997.1	3241.5	2655.9	1962.3	1335.9	1054.6	955.5	928.9	916.6	916.6
15°	4888.9	4243.0	3307.0	2369.2	1450.9	1010.3	913.0	867.0	838.7	822.8	824.5
17.5°	5281.7	4483.7	3275.2	1953.4	1070.5	898.9	826.3	776.8	737.8	721.9	718.4
20°	5678.0	4706.6	3098.2	1454.4	905.9	815.7	734.3	679.5	640.5	624.6	621.1
22.5°	6088.5	4895.9	2786.8	1066.9	813.9	723.7	644.1	589.2	552.1	537.9	530.8
25°	6488.4	5049.9	2351.5	863.5	727.2	637.0	560.9	509.6	476.0	461.8	460.0
27.5°	6861.7	5147.2	1847.3	762.6	651.1	559.1	490.1	444.1	415.8	405.2	403.4
30°	7197.9	5156.0	1366.0	688.3	583.9	491.9	428.2	387.5	362.7	352.1	348.6
32.5°	7537.7	5081.7	994.4	621.1	522.0	433.5	371.6	339.7	322.0	313.2	313.2
35°	7857.9	4910.1	775.0	562.7	461.8	376.9	327.3	304.3	293.7	284.9	284.9
37.5°	8171.1	4664.1	658.2	511.4	405.2	329.1	288.4	274.3	265.4	256.6	256.6
40°	8489.6	4354.5	598.1	463.6	359.2	292.0	256.6	244.2	235.3	228.3	226.5
42.5°	8880.6	3997.1	559.1	419.3	318.5	258.3	226.5	212.3	205.3	198.2	194.6
45°	9333.6	3689.2	527.3	375.1	284.9	230.0	196.4	182.2	171.6	162.8	161.0
47.5°	9986.5	3466.3	484.8	327.3	253.0	199.9	169.9	153.9	138.0	129.2	127.4
50°	10819.9	3282.2	430.0	284.9	221.2	169.9	141.6	122.1	107.9	99.1	99.1
52.5°	11233.9	3041.6	380.4	247.7	185.8	143.3	115.0	92.0	84.9	76.1	76.1
55°	11400.3	2857.6	330.9	210.6	153.9	118.5	90.2	70.8	65.5	60.2	58.4
57.5°	11867.4	2804.5	288.4	178.7	127.4	93.8	69.0	53.1	49.5	42.5	42.5
60°	12619.4	2831.0	249.5	152.2	102.6	72.5	51.3	40.7	37.2	30.1	30.1
62.5°	13431.5	2797.4	210.6	130.9	79.6	53.1	35.4	30.1	30.1	17.7	15.9
65°	13587.2	2491.3	180.5	107.9	61.9	38.9	23.0	19.5	26.5	3.5	0.0
67.5°	12610.5	1932.2	155.7	83.2	46.0	30.1	17.7	8.8	23.0	0.0	0.0
70°	10083.8	1228.0	125.6	60.2	35.4	24.8	14.2	3.5	17.7	0.0	0.0
72.5°	7130.7	713.1	99.1	42.5	30.1	19.5	10.6	0.0	10.6	0.0	0.0
75°	3606.0	380.4	61.9	31.8	23.0	14.2	7.1	0.0	1.8	0.0	0.0
77.5°	780.3	176.9	38.9	23.0	15.9	8.8	3.5	0.0	0.0	0.0	0.0
80°	169.9	77.9	24.8	14.2	8.8	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	61.9	40.7	12.4	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.6	21.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	7.1	1.8	1.8	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)