

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: P653322

Luminaire Tested: **GLAN-SA4D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25690 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

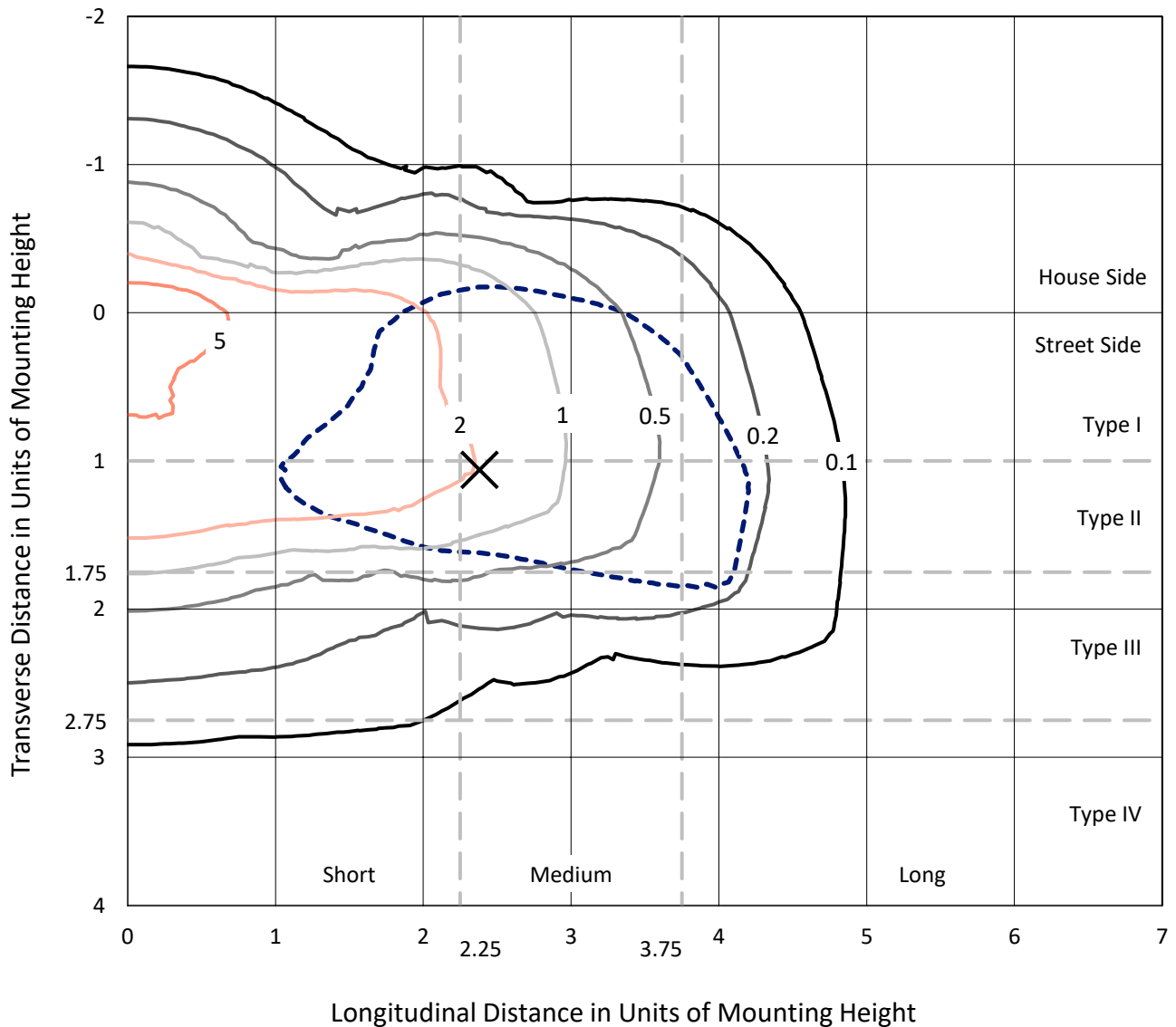
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653322
 CATALOG NUMBER: GLAN-SA4D-840-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

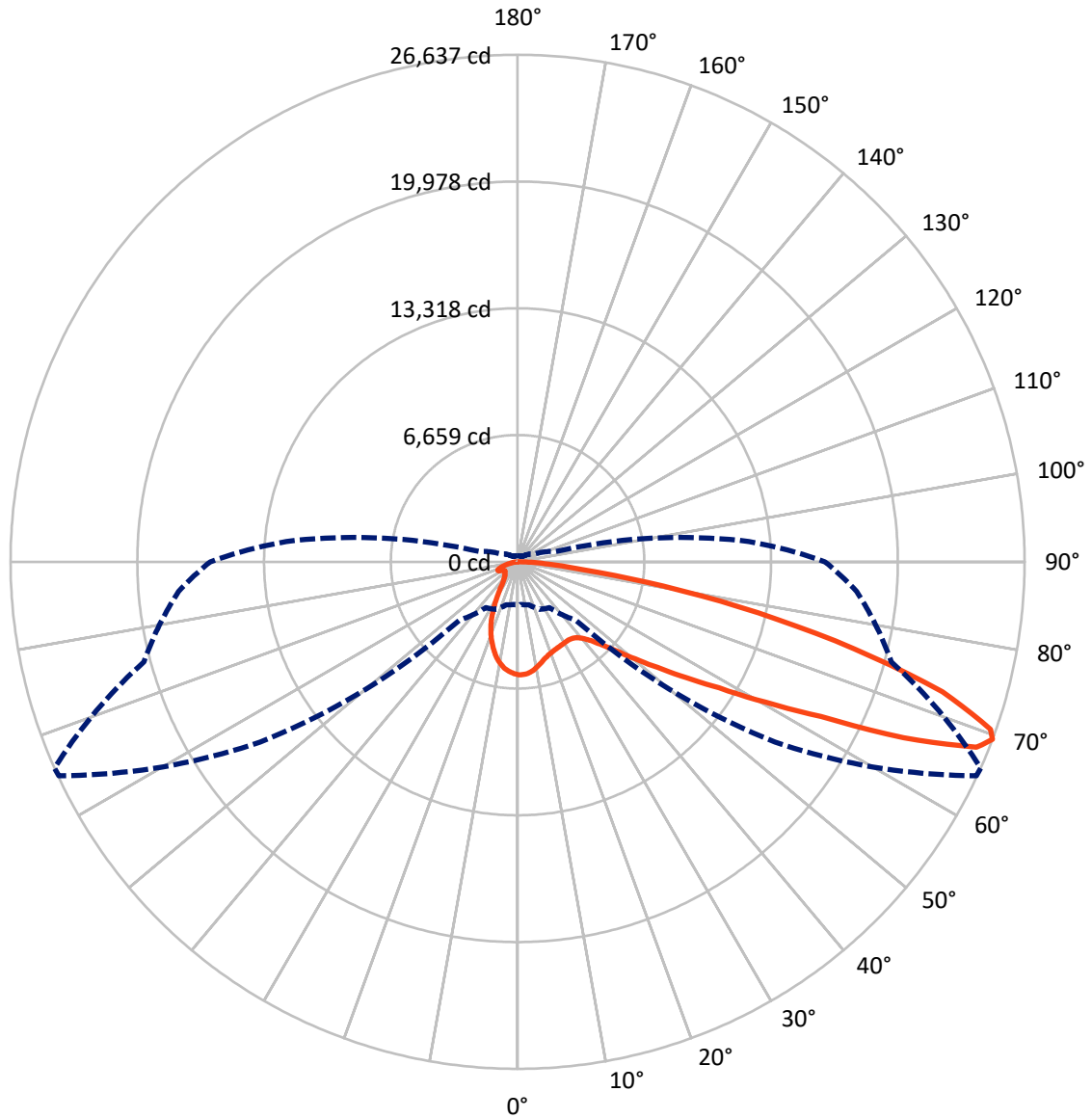
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P653322
CATALOG NUMBER: GLAN-SA4D-840-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P653322
 CATALOG NUMBER: GLAN-SA4D-840-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4831.3	0.0	4831.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20858.7	0.0	20858.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	25690.0	0.0	25690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	2.0
10°-20°	1222.0	4.8
20°-30°	1663.5	6.5
30°-40°	2235.4	8.7
40°-50°	3337.9	13.0
50°-60°	5309.4	20.7
60°-70°	6530.3	25.4
70°-80°	4248.9	16.5
80°-90°	627.4	2.4
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°	25690.0	100.0
0°-180°	25690.0	100.0

Coefficient of Utilization

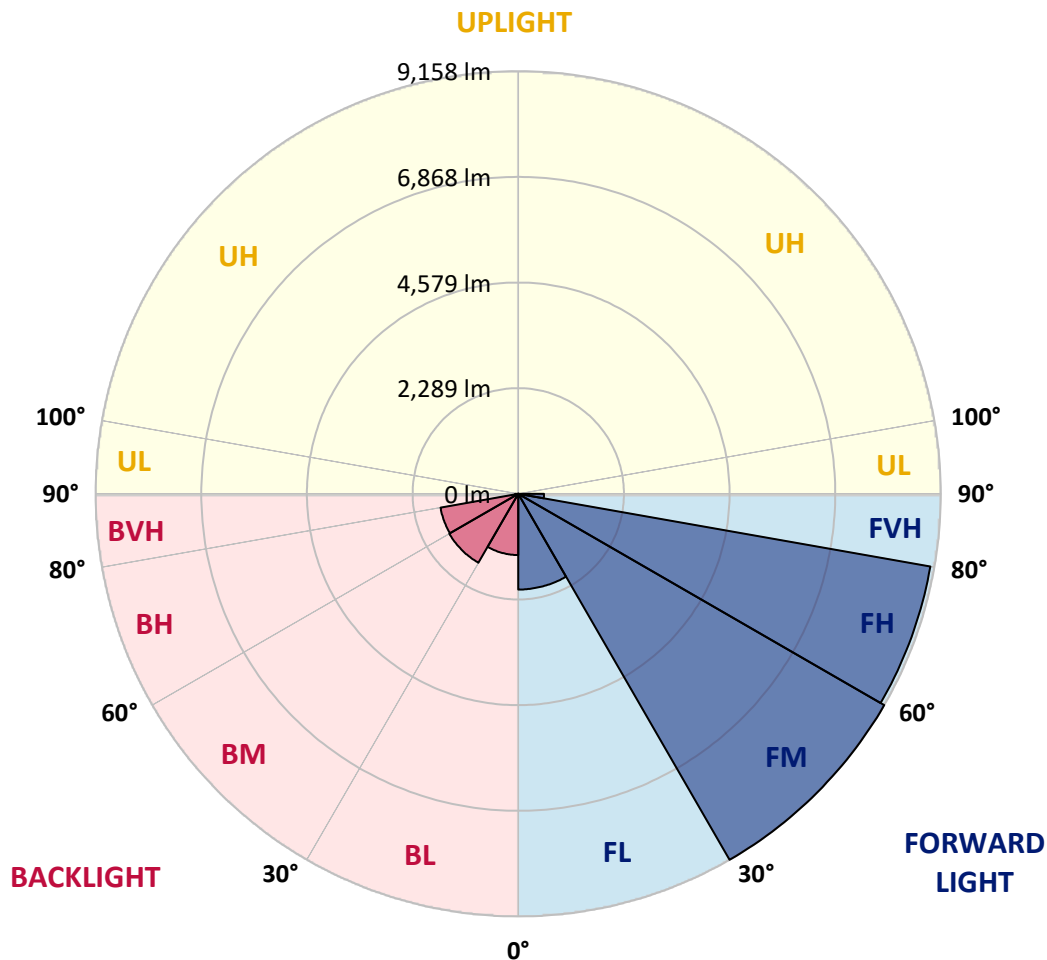


REPORT NUMBER: P653322
 CATALOG NUMBER: GLAN-SA4D-840-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.4	8.1			
FM (30°-60°)	9157.7	35.6			
FH (60°-80°)	9068.7	35.3			G4/12000
FVH (80°-90°)	557.8	2.2			G4/750
BL (0°-30°)	1326.2	5.2	B3/2500		
BM (30°-60°)	1725.0	6.7	B2/2500		
BH (60°-80°)	1710.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	69.6	0.3			G1/100
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





REPORT NUMBER: P653322
 CATALOG NUMBER: GLAN-SA4D-840-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6
2.5°	5724.9	5747.6	5773.2	5801.6	5855.7	5885.6	5906.9	5931.2	5933.9	5946.8	5936.8
5°	5302.3	5329.3	5367.8	5421.8	5502.9	5629.5	5760.4	5867.1	5879.9	5939.6	5956.7
7.5°	4949.5	4965.1	4996.4	5083.2	5198.5	5339.3	5529.9	5746.1	5777.5	5919.7	5969.5
10°	4662.1	4677.7	4714.7	4804.4	4918.2	5094.6	5303.7	5588.3	5613.8	5858.6	5972.4
12.5°	4447.3	4461.5	4501.4	4589.5	4720.4	4885.5	5115.9	5417.6	5454.6	5777.5	5945.4
15°	4283.6	4310.7	4343.4	4416.0	4553.9	4713.3	4936.7	5261.0	5290.9	5692.1	5926.9
17.5°	4213.9	4226.8	4249.5	4316.3	4417.4	4573.9	4798.7	5138.7	5174.3	5632.3	5922.6
20°	4216.8	4229.6	4233.8	4270.9	4343.4	4478.6	4700.5	5042.0	5084.6	5579.7	5929.7
22.5°	4313.6	4315.0	4299.3	4286.5	4315.0	4427.4	4630.8	4969.4	5019.2	5557.0	5935.4
25°	4462.9	4488.5	4465.8	4406.0	4353.4	4407.4	4603.8	4929.5	4976.5	5524.2	5928.3
27.5°	4704.8	4709.0	4690.5	4609.4	4472.9	4433.1	4592.4	4899.7	4939.5	5500.1	5892.7
30°	5029.2	5016.3	4999.2	4909.7	4694.8	4531.2	4616.6	4872.7	4913.9	5464.5	5850.0
32.5°	5357.8	5397.6	5382.0	5276.7	4997.8	4721.9	4694.8	4869.8	4904.0	5437.5	5803.1
35°	5706.4	5724.9	5798.8	5744.8	5458.8	5030.5	4841.4	4913.9	4941.0	5438.9	5770.4
37.5°	5979.5	6029.3	6202.9	6249.8	5980.9	5438.9	5079.0	5039.1	5050.5	5508.6	5783.1
40°	6309.5	6394.9	6618.2	6810.3	6633.9	5969.5	5483.0	5271.0	5285.3	5676.5	5867.1
42.5°	6727.8	6787.5	7087.8	7348.1	7319.6	6670.9	5972.4	5650.8	5658.0	6010.8	6101.9
45°	7217.2	7302.6	7639.7	8031.0	8097.8	7464.8	6679.5	6225.6	6221.4	6530.0	6540.0
47.5°	7843.2	7895.8	8230.2	8656.9	8927.3	8462.1	7537.3	7050.8	7005.2	7286.9	7205.9
50°	8419.3	8501.9	8755.1	9221.7	9894.7	9630.0	8665.5	8120.6	8013.9	8277.1	8140.5
52.5°	8661.2	8748.0	8961.4	9540.5	10724.1	11141.0	10098.1	9396.7	9218.9	9421.0	9371.2
55°	8241.5	8353.9	8553.1	9257.3	11088.3	12883.7	12030.1	10872.0	10742.6	10655.8	10670.0
57.5°	7113.3	7220.1	7488.9	8265.7	10652.9	14148.5	14788.6	12768.5	12491.0	12091.3	12159.6
60°	5414.7	5481.6	5621.0	6481.7	9362.6	14477.1	17921.4	15165.7	14989.2	13521.1	13569.5
62.5°	3845.5	3920.9	4017.6	4447.3	6854.4	13550.9	20374.1	18513.2	17883.0	15002.1	14955.2
65°	3122.8	3071.6	3188.2	3388.8	4021.9	10502.2	20926.1	23159.7	22291.9	16952.5	16300.9
67.5°	2567.9	2513.8	2629.1	2986.2	3058.7	6096.2	18937.2	26175.7	26002.2	19073.8	17668.1
69°	2273.4	2245.0	2346.0	2752.8	2936.4	4329.2	16497.3	26595.4	26636.7	20324.3	17878.7
70°	2048.7	2060.0	2158.2	2634.8	2880.9	3569.5	14100.1	26016.4	26366.4	20948.8	17651.1
72.5°	1508.0	1532.2	1668.8	2182.4	2828.3	3028.9	8390.9	22724.3	23343.2	20985.8	16147.3
75°	1054.2	1042.8	1163.8	1643.1	2671.8	3001.9	4928.2	17574.3	18275.6	18139.0	13568.0
77.5°	690.0	708.5	805.3	1160.9	2247.8	2979.1	3212.4	12468.3	12923.6	12131.1	8025.3
80°	486.5	485.2	539.2	792.4	1667.4	2862.4	2630.5	7858.8	7743.6	4767.4	2380.1
82.5°	278.9	298.7	361.4	557.7	1115.3	2519.6	2420.0	3758.7	3431.4	1358.6	803.8
85°	155.1	162.1	214.8	337.2	651.6	1897.9	2112.7	1710.1	1613.3	567.7	345.7
87.5°	49.8	54.1	89.7	170.7	295.9	896.3	1196.5	789.6	728.4	204.9	139.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P653322
 CATALOG NUMBER: GLAN-SA4D-840-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6	5932.6
2.5°	5941.1	5958.1	5912.7	5868.5	5828.7	5773.2	5723.4	5682.1	5653.7	5649.4	5635.2
5°	5961.0	5962.4	5875.6	5759.0	5645.1	5520.0	5390.5	5298.0	5211.3	5162.9	5138.7
7.5°	5975.2	5962.4	5805.9	5616.7	5397.6	5170.0	4942.4	4760.2	4619.4	4563.9	4585.3
10°	5969.5	5929.7	5700.6	5397.6	5079.0	4739.0	4411.7	4155.6	3920.9	3800.0	3802.8
12.5°	5938.2	5872.8	5544.1	5151.5	4683.4	4228.2	3727.4	3381.7	3109.9	2949.2	2899.4
15°	5911.2	5797.3	5360.6	4817.2	4235.3	3585.1	2974.8	2548.0	2320.4	2193.7	2192.3
17.5°	5882.7	5724.9	5160.0	4462.9	3720.2	2883.8	2243.5	1917.7	1811.1	1823.9	1802.5
20°	5852.9	5639.5	4950.9	4068.8	3092.9	2151.1	1680.1	1547.9	1577.7	1636.1	1644.6
22.5°	5818.7	5548.4	4726.1	3634.9	2432.8	1619.0	1362.9	1343.0	1419.9	1510.9	1523.6
25°	5766.1	5434.6	4443.0	3181.1	1876.5	1304.6	1193.6	1207.8	1283.3	1360.1	1368.6
27.5°	5692.1	5293.8	4157.1	2614.8	1409.9	1119.6	1091.2	1109.7	1146.7	1193.6	1205.0
30°	5592.5	5134.4	3828.4	2125.5	1129.6	1027.2	1015.8	1025.8	1047.0	1067.0	1072.7
32.5°	5492.9	4980.7	3497.0	1627.5	1007.3	966.0	954.6	954.6	954.6	957.5	958.9
35°	5400.5	4835.7	3141.2	1267.6	943.3	917.6	902.0	884.9	882.0	872.1	872.1
37.5°	5349.3	4703.4	2762.9	1061.3	896.3	877.8	856.5	828.0	812.3	813.8	810.9
40°	5359.2	4616.6	2418.5	944.7	857.9	838.0	805.3	772.5	762.5	762.5	759.7
42.5°	5471.6	4588.1	2088.5	883.5	820.9	798.1	756.9	727.0	721.3	719.9	722.8
45°	5730.5	4657.8	1792.6	843.6	789.6	755.5	714.2	687.2	681.5	681.5	680.0
47.5°	6235.6	4884.0	1580.6	818.0	766.8	722.8	680.0	653.0	643.0	640.2	640.2
50°	7020.9	5374.8	1422.6	795.2	738.4	692.8	648.7	617.5	601.8	600.4	599.0
52.5°	8112.0	6140.2	1361.5	778.2	707.0	661.5	613.2	583.3	563.4	559.1	556.2
55°	9388.3	7208.7	1445.4	765.4	674.3	626.0	576.2	544.9	526.4	517.9	516.5
57.5°	10866.4	8491.9	1764.1	748.3	644.5	587.5	539.2	507.9	487.9	478.0	475.2
60°	12193.7	9810.8	2320.4	738.4	618.9	546.3	496.5	468.1	449.6	439.6	438.2
62.5°	13652.0	11068.4	2984.8	765.4	607.5	506.5	456.7	431.1	415.5	405.4	405.4
65°	15209.8	12327.5	3424.4	856.5	624.5	475.2	414.0	392.7	378.4	371.3	369.9
67.5°	16259.7	12762.8	2821.1	950.3	667.2	441.0	372.7	355.7	347.2	340.0	340.0
69°	16145.9	12212.2	2081.4	974.6	680.0	423.9	349.9	337.2	325.8	322.9	320.1
70°	15786.0	11584.8	1744.2	958.9	670.1	408.3	335.7	320.1	310.2	307.3	305.9
72.5°	14060.3	10046.9	1298.9	833.7	570.5	354.2	297.4	283.1	274.6	270.3	270.3
75°	11681.6	8211.7	1014.3	663.0	446.7	298.7	254.7	243.3	236.2	233.3	231.9
77.5°	6547.1	4585.3	728.4	519.2	338.6	241.9	213.4	203.4	196.3	193.5	193.5
80°	1823.9	1310.3	428.2	342.9	230.4	183.5	169.3	162.1	152.2	145.1	149.4
82.5°	687.2	567.7	244.7	206.3	146.5	122.4	118.1	112.4	108.2	98.1	98.1
85°	334.3	276.0	156.5	109.6	81.1	64.0	61.1	58.4	55.5	48.4	49.8
87.5°	115.2	122.4	68.3	39.9	24.2	15.6	12.8	7.1	7.1	7.1	7.1
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)