

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: P319857

Luminaire Tested: **GAN-SA3D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18825 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

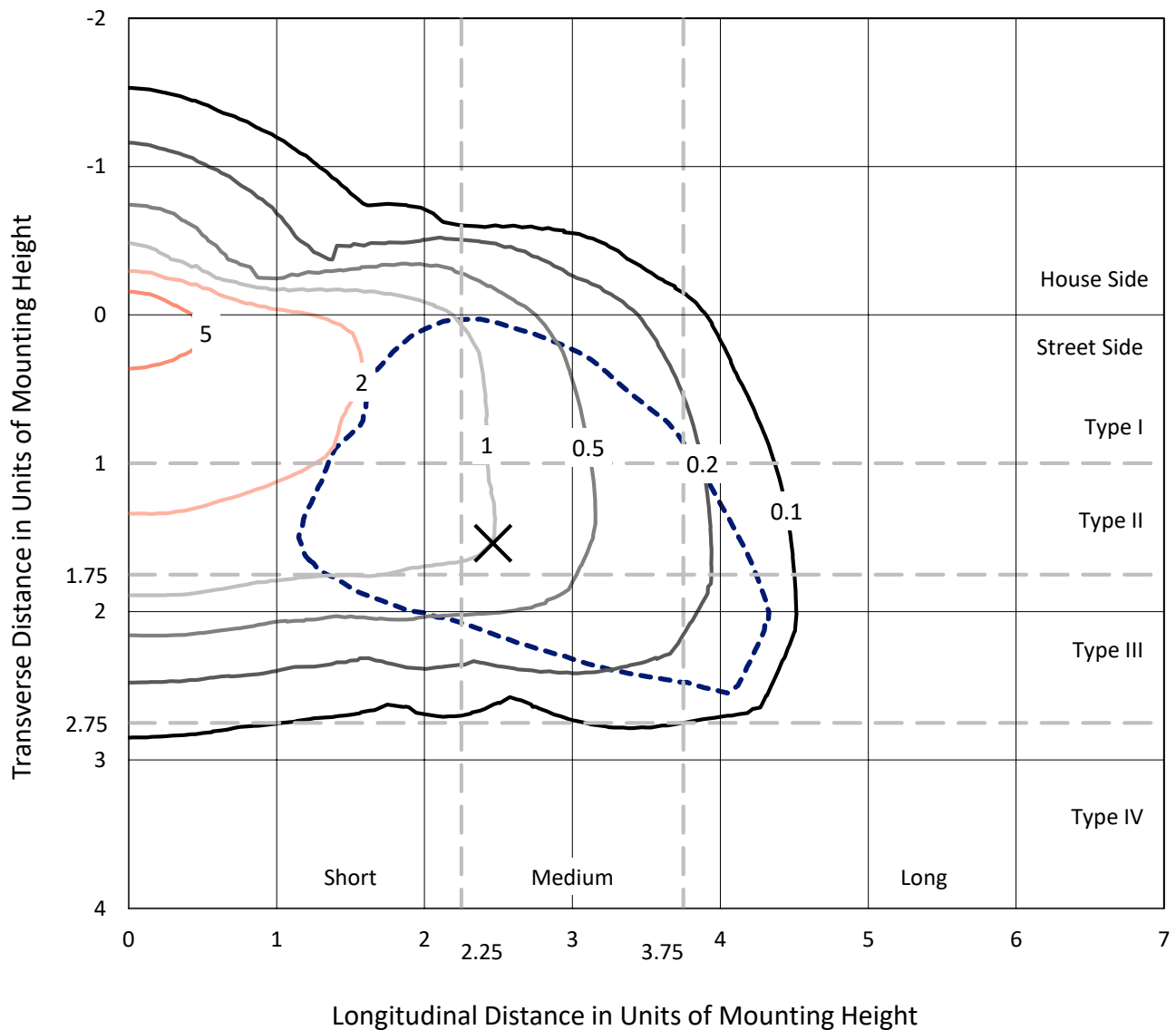
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319857
 CATALOG NUMBER: GAN-SA3D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

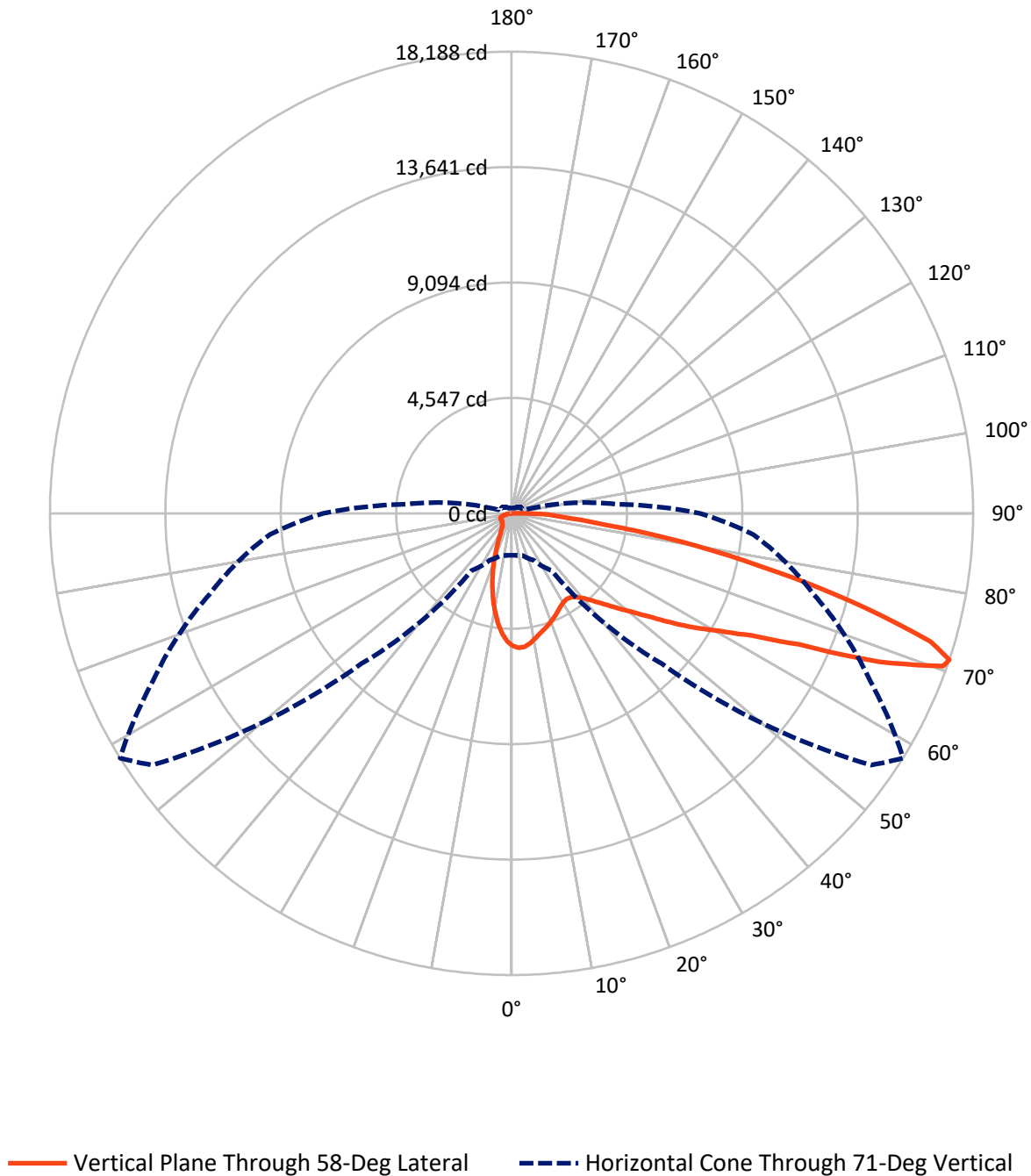
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P319857
CATALOG NUMBER: GAN-SA3D-830-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.5	0.0	2814.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16010.5	0.0	16010.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	18825.0	0.0	18825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	2.4
10°-20°	1000.6	5.3
20°-30°	1271.6	6.8
30°-40°	1619.8	8.6
40°-50°	2296.9	12.2
50°-60°	3554.5	18.9
60°-70°	4839.1	25.7
70°-80°	3228.2	17.1
80°-90°	564.4	3.0
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°	18825.0	100.0
0°-180°	18825.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319857

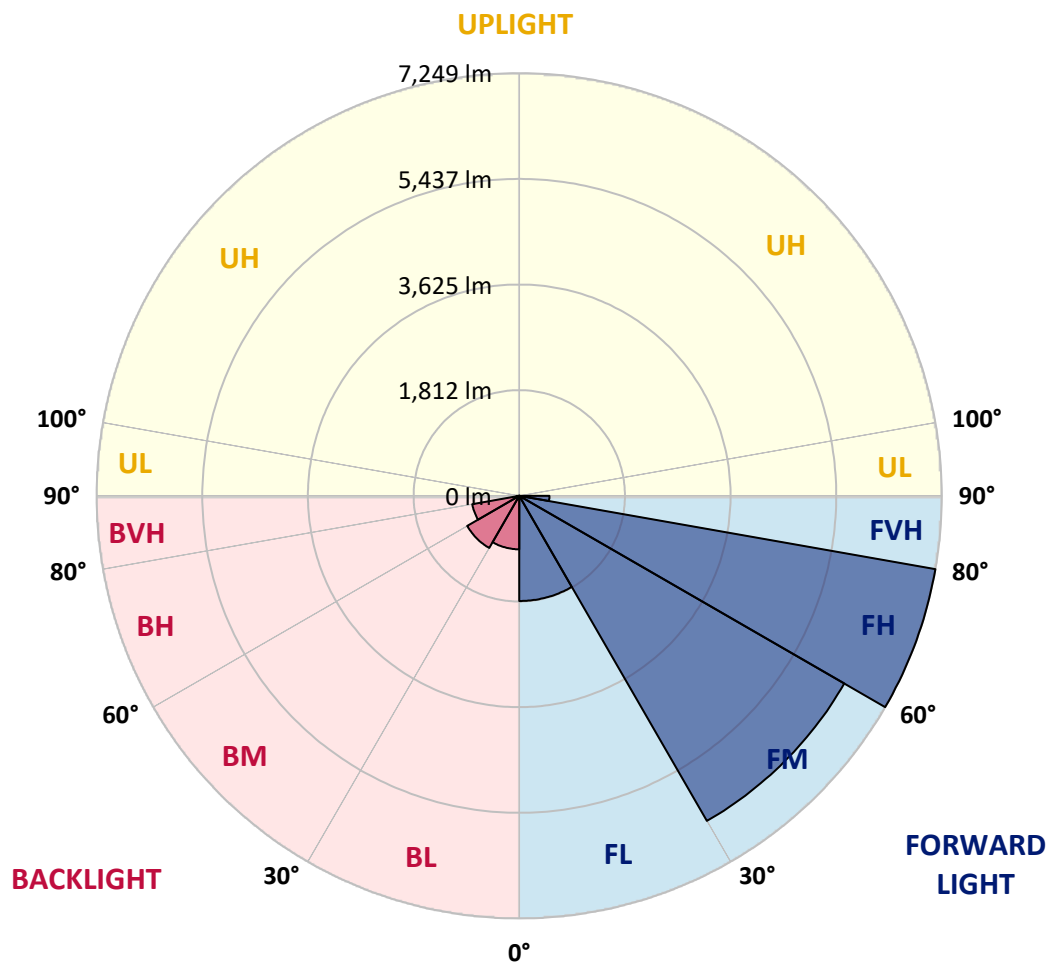
CATALOG NUMBER: GAN-SA3D-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.7	9.6			
FM	(30°-60°)	6439.1	34.2			
FH	(60°-80°)	7249.3	38.5			G3/7500
FVH	(80°-90°)	517.5	2.7			G4/750
BL	(0°-30°)	917.4	4.9	B2/1000		
BM	(30°-60°)	1032.1	5.5	B2/2500		
BH	(60°-80°)	818.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	46.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





REPORT NUMBER: P319857

CATALOG NUMBER: GAN-SA3D-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8
2.5°	5354.1	5346.9	5349.6	5344.3	5331.9	5319.4	5301.0	5304.3	5278.7	5240.7	5193.5
5°	5253.2	5250.5	5270.2	5281.4	5290.5	5283.3	5278.1	5284.6	5247.3	5194.8	5112.8
7.5°	5041.4	5012.5	5037.4	5074.8	5110.2	5137.1	5172.5	5177.1	5153.5	5098.4	4990.9
10°	4740.4	4712.8	4749.5	4807.9	4878.7	4943.0	5014.5	5027.6	5032.2	4982.3	4851.8
12.5°	4428.2	4407.3	4444.0	4525.9	4643.3	4742.3	4856.4	4876.1	4916.8	4883.3	4723.3
15°	4148.9	4141.0	4185.6	4266.3	4401.4	4552.8	4717.4	4753.5	4822.3	4811.2	4623.0
17.5°	3907.6	3905.6	3939.7	4024.3	4173.8	4365.3	4579.1	4640.0	4742.3	4755.5	4540.4
20°	3727.9	3724.0	3747.6	3809.9	3964.0	4181.0	4429.5	4513.5	4661.0	4706.9	4455.1
22.5°	3631.5	3630.9	3631.5	3661.0	3786.9	3988.9	4284.0	4386.3	4581.7	4668.2	4360.7
25°	3615.1	3613.1	3598.7	3595.4	3666.9	3828.2	4139.7	4252.5	4506.3	4641.4	4270.9
27.5°	3657.7	3660.4	3641.3	3610.5	3624.9	3722.7	4014.5	4135.1	4445.9	4636.1	4208.6
30°	3746.3	3745.0	3728.6	3696.4	3668.2	3683.3	3925.3	4045.9	4405.3	4659.1	4165.9
32.5°	3844.0	3851.2	3847.9	3830.2	3788.2	3727.9	3898.4	4016.4	4393.5	4714.1	4147.6
35°	3961.3	3969.2	3992.8	4006.6	3957.4	3860.4	3956.1	4058.4	4427.6	4817.7	4177.1
37.5°	4072.8	4093.2	4159.4	4217.7	4175.8	4067.6	4109.5	4182.3	4533.2	4981.0	4256.4
40°	4201.3	4219.1	4327.3	4451.2	4444.6	4332.5	4356.8	4405.3	4719.4	5215.1	4400.0
42.5°	4327.9	4363.3	4520.0	4695.8	4746.3	4647.3	4685.9	4711.5	4981.7	5525.3	4650.5
45°	4496.4	4534.5	4752.2	4964.0	5082.0	5026.3	5087.9	5097.7	5311.5	5947.6	5014.5
47.5°	4751.5	4794.8	5048.6	5270.9	5451.2	5457.1	5558.7	5554.8	5723.3	6430.9	5472.8
50°	5148.9	5211.2	5419.1	5626.9	5846.0	5967.9	6103.7	6084.6	6217.1	6945.6	6000.7
52.5°	5669.6	5698.4	5852.5	6006.0	6278.1	6551.5	6746.3	6729.2	6777.1	7474.8	6600.1
55°	6209.2	6230.9	6294.5	6378.4	6744.3	7190.2	7602.0	7575.1	7453.8	8024.3	7192.2
57.5°	6694.5	6738.4	6782.4	6817.1	7213.8	7857.8	8477.5	8479.4	8188.3	8617.1	7804.0
60°	6769.9	6808.6	7099.1	7373.2	8017.1	8748.3	9414.5	9394.8	8948.3	9260.4	8486.0
62.5°	5984.3	6071.5	6556.8	7286.0	8790.9	10377.1	10609.9	10585.7	9857.1	10053.2	9280.1
65°	4288.6	4387.6	4973.2	6068.9	8415.8	12171.9	12767.3	12440.8	11096.5	11028.3	10209.9
67.5°	2474.1	2497.7	2751.5	3631.5	6407.9	12265.7	16058.5	15601.4	13021.1	12134.5	10665.0
70°	1829.5	1828.9	1889.2	2234.8	3467.6	10010.6	17623.8	18033.6	15047.3	12498.5	10021.7
71°	1654.4	1656.4	1723.9	2034.1	2746.3	8379.1	17291.3	18188.4	15581.1	12318.8	9556.1
72.5°	1415.1	1421.7	1515.4	1824.3	2310.2	5778.4	15859.2	17259.8	15834.2	11875.5	8827.6
75°	1073.5	1088.5	1218.4	1537.7	2111.5	2930.5	11639.4	13782.4	14066.4	10478.8	6559.4
77.5°	765.9	783.0	929.8	1293.1	2007.2	2208.5	7794.8	10053.2	10351.6	6715.5	2958.7
80°	483.9	504.3	615.1	1028.9	1885.9	2097.1	4898.4	6757.4	5644.6	2148.9	752.8
82.5°	283.9	299.7	381.6	672.1	1540.3	2019.7	2882.0	3745.6	2196.7	649.2	342.3
85°	164.6	171.8	238.0	428.2	1118.7	1906.2	2117.4	2093.8	953.5	317.4	162.0
87.5°	76.7	85.2	141.0	223.6	621.0	1381.7	1673.5	1445.9	592.8	148.9	76.1
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: P319857

CATALOG NUMBER: GAN-SA3D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8
2.5°	5170.5	5159.4	5112.8	5071.5	5028.2	4971.8	4909.6	4901.7	4863.6	4870.9	4857.7
5°	5068.2	5040.0	4927.9	4826.3	4706.3	4598.7	4482.0	4428.2	4350.9	4345.6	4325.9
7.5°	4922.0	4869.6	4695.8	4503.0	4310.2	4126.6	3945.0	3825.6	3703.6	3651.8	3647.2
10°	4757.4	4668.2	4412.5	4127.2	3849.2	3581.0	3321.3	3129.2	2956.1	2874.1	2870.8
12.5°	4601.4	4469.5	4118.7	3730.5	3350.2	3002.6	2646.6	2394.1	2177.1	2104.3	2073.5
15°	4468.9	4283.3	3832.8	3336.4	2874.8	2392.2	1986.9	1721.3	1520.7	1451.2	1438.0
17.5°	4340.4	4101.7	3539.7	2938.4	2380.3	1849.9	1443.9	1246.6	1139.7	1111.5	1110.8
20°	4212.5	3914.8	3233.5	2531.2	1902.3	1383.6	1110.2	1021.6	985.6	982.3	977.1
22.5°	4067.6	3716.8	2911.5	2122.6	1484.6	1087.9	943.6	908.2	903.6	915.4	915.4
25°	3931.8	3520.0	2584.9	1722.6	1154.8	907.5	842.6	835.4	847.9	868.9	870.8
27.5°	3805.3	3330.5	2266.2	1367.2	925.3	799.4	772.5	781.0	803.3	827.5	828.2
30°	3701.0	3151.5	1956.7	1077.4	781.6	718.7	714.1	731.2	755.4	774.4	779.0
32.5°	3620.4	2998.7	1657.7	866.2	687.9	658.4	662.3	676.7	691.8	702.3	709.5
35°	3583.0	2867.6	1381.7	730.5	628.2	611.8	617.1	624.9	631.5	639.3	645.3
37.5°	3589.5	2765.9	1135.1	645.9	588.2	579.7	579.7	579.7	579.7	583.6	584.3
40°	3650.5	2707.6	934.4	592.1	561.3	552.1	544.9	538.4	533.1	535.7	534.4
42.5°	3806.6	2702.3	787.5	558.0	539.7	524.6	510.2	501.0	494.4	497.1	498.4
45°	4071.5	2767.9	688.5	533.8	519.3	496.4	478.0	468.2	463.6	472.1	473.4
47.5°	4414.5	2910.8	628.2	516.1	500.3	470.2	450.5	441.3	442.6	455.1	458.4
50°	4856.4	3143.0	599.3	504.9	487.2	447.9	427.5	419.7	423.6	441.3	445.2
52.5°	5341.7	3477.4	602.6	501.6	478.7	431.5	409.8	400.7	407.2	423.6	426.9
55°	5901.7	3879.4	657.1	506.2	466.2	421.0	395.4	379.7	384.9	400.0	402.6
57.5°	6524.0	4339.7	766.6	504.9	450.5	411.2	380.3	356.7	360.7	369.8	372.5
60°	7171.9	4895.8	936.4	508.9	443.3	399.3	360.0	330.5	329.2	337.1	338.4
62.5°	7949.6	5539.1	1130.5	511.5	447.9	384.3	333.1	304.3	300.3	302.3	303.6
65°	8750.9	6004.6	1057.7	501.0	462.3	371.8	309.5	278.7	271.5	270.2	270.8
67.5°	8775.8	5505.6	741.6	480.0	468.2	365.2	291.8	257.1	245.2	240.7	240.0
70°	7870.2	4472.8	577.7	457.7	444.6	354.8	275.4	239.3	221.6	214.4	213.8
71°	7428.3	4117.4	547.5	446.6	426.9	344.3	268.2	231.5	213.1	205.2	203.9
72.5°	6735.1	3691.2	510.8	428.9	392.8	317.4	254.4	220.3	201.3	192.1	190.2
75°	4833.5	2413.8	438.7	382.3	325.2	253.1	223.0	198.0	181.6	170.5	169.2
77.5°	1862.3	960.7	331.8	318.0	249.2	198.0	183.6	171.1	159.3	148.2	147.5
80°	575.7	429.5	242.0	239.3	180.3	147.5	143.0	139.7	135.1	123.3	120.7
82.5°	307.5	246.6	166.6	154.8	118.0	98.4	103.6	104.9	105.6	93.1	91.8
85°	146.9	130.5	93.8	87.9	68.9	55.1	63.6	68.9	69.5	57.0	53.1
87.5°	70.2	68.2	43.9	33.4	25.6	18.4	22.3	27.5	30.2	21.6	19.0
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)