

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: P456503

Luminaire Tested: **GLAN-SA7D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50010 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): 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

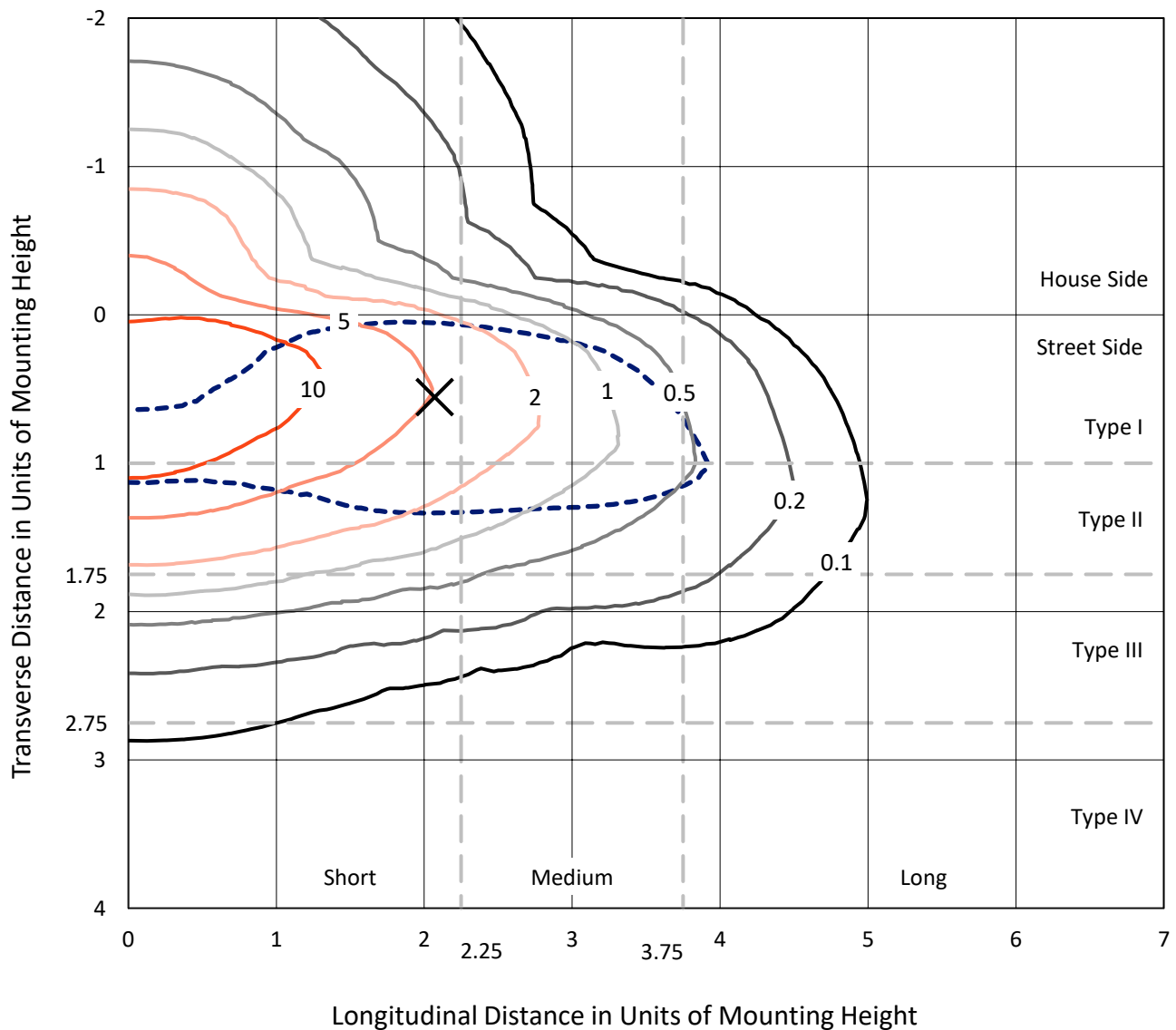


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

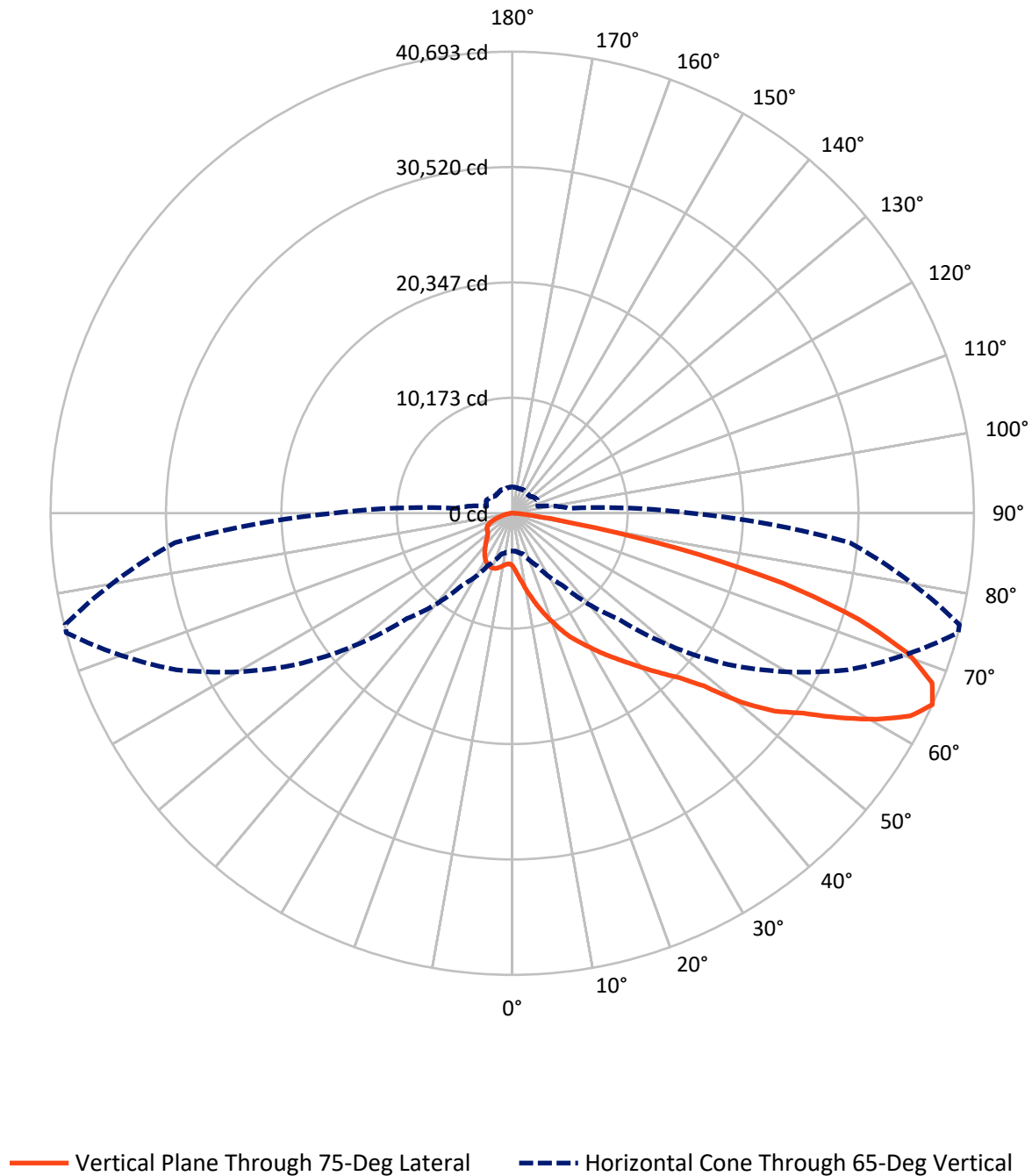


Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8407.3	0.0	8407.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	41602.7	0.0	41602.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	50010.0	0.0	50010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.5	1.1
10°-20°	2211.2	4.4
20°-30°	4271.4	8.5
30°-40°	6938.0	13.9
40°-50°	9543.8	19.1
50°-60°	11268.0	22.5
60°-70°	9872.6	19.7
70°-80°	4713.3	9.4
80°-90°	627.2	1.3
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°	50010.0	100.0
0°-180°	50010.0	100.0

Coefficient of Utilization



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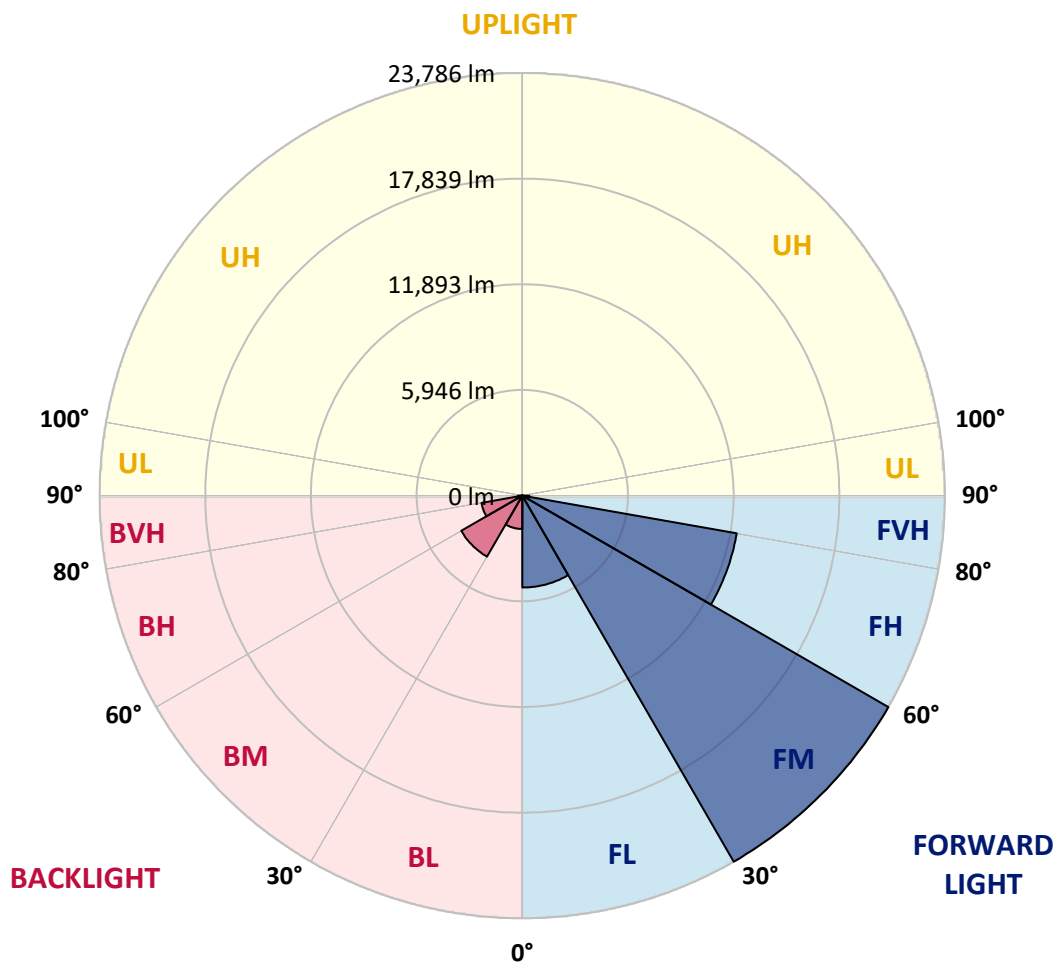
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5170.2	10.3			
FM	(30°-60°)	23785.8	47.6			
FH	(60°-80°)	12254.7	24.5			G5
FVH	(80°-90°)	391.9	0.8			G3/500
BL	(0°-30°)	1876.9	3.8	B3/2500		
BM	(30°-60°)	3964.0	7.9	B3/5000		
BH	(60°-80°)	2331.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	235.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6
2.5°	6173.7	6133.0	6089.6	5970.3	5842.8	5699.0	5492.9	5294.9	5031.7	5023.6	4828.3
5°	7885.3	7858.2	7665.6	7554.4	7258.7	6865.4	6531.8	6013.7	5533.6	5476.6	5096.8
7.5°	9458.6	9352.8	9279.6	9078.8	8785.9	8281.3	7635.8	6935.9	6133.0	6057.1	5427.8
10°	10644.0	10633.1	10595.1	10421.5	10201.8	9700.0	8983.9	7980.3	6892.5	6743.3	5829.2
12.5°	11531.0	11539.1	11533.7	11531.0	11373.6	10947.8	10172.0	9114.1	7660.2	7554.4	6293.1
15°	12114.2	12195.5	12228.1	12363.7	12377.3	12092.5	11425.2	10210.0	8525.5	8368.1	6792.2
17.5°	12499.3	12540.0	12691.9	12922.5	13109.6	13058.1	12464.1	11224.4	9409.8	9146.6	7310.3
20°	12868.2	12938.8	13055.4	13370.1	13701.0	13852.9	13435.2	12263.3	10285.9	10117.7	7882.6
22.5°	13635.9	13736.2	13776.9	13937.0	14219.1	14487.6	14297.7	13258.8	11246.1	11018.3	8490.2
25°	14935.2	15041.0	14927.0	14889.1	14981.3	15114.2	15073.5	14197.4	12152.1	11826.6	9065.3
27.5°	16627.8	16641.4	16418.9	16207.4	15979.5	15911.7	15786.9	15030.1	12938.8	12667.5	9643.0
30°	18445.2	18380.1	18011.2	17628.7	17243.5	16863.8	16505.7	15833.0	13814.9	13503.0	10210.0
32.5°	20132.4	20097.1	19687.5	19093.5	18442.5	18084.4	17360.2	16644.1	14753.4	14452.3	10793.1
35°	21396.4	21448.0	20997.7	20349.4	19638.7	19321.3	18407.2	17495.8	15724.5	15396.3	11427.9
37.5°	22294.3	22267.1	21868.4	21306.9	20683.0	20406.3	19630.6	18426.2	16768.8	16454.2	12122.3
40°	22614.3	22598.1	22302.4	21892.8	21496.8	21399.1	20910.9	19429.8	17965.1	17596.2	12957.7
42.5°	22410.9	22446.2	22250.9	22139.7	22066.4	22136.9	22183.1	20745.4	19269.8	18930.7	13863.7
45°	21787.0	21768.0	21740.9	21922.7	22335.0	22798.8	23441.7	21987.8	20688.5	20417.2	15078.9
47.5°	20672.2	20807.8	20875.6	21377.4	22278.0	23376.6	24890.2	23653.2	22747.3	22511.3	16931.6
50°	19112.5	19221.0	19622.4	20514.9	21857.6	23593.6	26306.1	26376.6	26181.3	25739.2	18944.3
52.5°	16676.6	16844.8	17672.1	19307.8	20995.0	23504.1	27163.3	28712.1	28969.8	28638.9	20927.2
55°	13950.5	14186.5	15060.0	17205.6	19806.9	23015.8	27754.6	30065.7	31093.7	30787.2	22836.8
57.5°	11281.4	11531.0	12428.8	14506.6	17734.5	21936.2	28142.5	31573.8	33985.3	33586.5	25212.9
60°	8455.0	8715.4	9485.7	11625.9	14783.3	19825.9	27879.4	32881.3	36874.1	36703.2	27591.8
62.5°	5454.9	5742.4	6412.4	8183.7	11362.8	16942.5	26471.6	33602.8	39375.1	39168.9	29327.9
65°	3322.8	3355.4	3724.3	5080.6	7776.8	13117.8	23251.8	32645.3	40693.3	40631.0	29856.8
67.5°	2148.3	2199.9	2368.0	3043.5	4662.8	9111.4	18591.7	29485.2	39923.0	39901.3	28763.6
70°	1814.7	1831.0	1906.9	2053.4	2709.8	5525.4	13055.4	24448.0	36996.2	36996.2	26135.2
72.5°	1622.1	1643.8	1670.9	1717.0	1934.0	3130.3	7790.4	19031.1	31942.7	32154.3	22245.4
75°	1472.9	1467.5	1483.8	1491.9	1649.2	2045.2	4028.1	14075.3	24711.1	24288.0	16109.7
77.5°	1261.3	1269.5	1261.3	1296.6	1456.6	1557.0	2045.2	9445.0	14975.9	14427.9	8086.0
80°	1036.2	1049.7	1063.3	1085.0	1245.1	1182.7	1228.8	4304.8	5539.0	5422.3	2498.2
82.5°	778.5	797.5	819.2	870.7	979.2	781.2	775.8	1839.1	1999.1	1831.0	919.5
85°	314.7	371.6	561.5	613.0	615.7	428.6	477.4	767.6	816.5	797.5	360.8
87.5°	73.2	86.8	181.7	274.0	252.3	160.0	176.3	249.6	284.8	263.1	122.1
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°	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6	4646.6
2.5°	4738.8	4643.8	4481.1	4356.3	4266.8	4188.1	4139.3	4109.5	4098.6	4095.9	4098.6
5°	4898.8	4730.6	4473.0	4310.2	4220.7	4169.2	4139.3	4136.6	4139.3	4142.0	4133.9
7.5°	5118.5	4877.1	4540.8	4388.9	4321.1	4283.1	4269.5	4264.1	4266.8	4264.1	4264.1
10°	5411.5	5080.6	4673.7	4516.4	4459.4	4416.0	4394.3	4380.7	4369.9	4359.0	4353.6
12.5°	5734.3	5305.7	4817.4	4665.5	4584.2	4516.4	4467.5	4432.3	4407.9	4383.4	4378.0
15°	6095.1	5544.4	4977.5	4765.9	4649.3	4548.9	4464.8	4407.9	4364.5	4329.2	4326.5
17.5°	6439.5	5769.5	5086.0	4812.0	4641.1	4500.1	4388.9	4310.2	4256.0	4209.8	4204.4
20°	6808.4	5983.8	5134.8	4782.2	4559.8	4388.9	4242.4	4147.5	4085.1	4033.5	4025.4
22.5°	7180.1	6165.6	5129.4	4687.2	4418.7	4218.0	4063.4	3963.0	3889.8	3838.2	3819.2
25°	7535.4	6312.1	5061.6	4535.3	4223.4	4014.5	3857.2	3765.0	3699.9	3637.5	3637.5
27.5°	7855.5	6398.9	4934.1	4350.9	4022.7	3803.0	3678.2	3594.1	3534.4	3493.7	3469.3
30°	8170.1	6439.5	4760.5	4117.6	3811.1	3623.9	3523.6	3474.7	3420.5	3374.4	3369.0
32.5°	8452.2	6431.4	4543.5	3889.8	3610.4	3477.5	3436.8	3398.8	3341.8	3276.7	3260.5
35°	8726.2	6377.2	4285.8	3640.2	3442.2	3390.7	3401.5	3347.3	3244.2	3162.8	3149.2
37.5°	9024.6	6279.5	4003.7	3436.8	3301.1	3350.0	3377.1	3257.7	3089.6	2962.1	2932.2
40°	9369.1	6168.3	3710.7	3233.3	3189.9	3312.0	3312.0	3092.3	2861.7	2783.1	2761.4
42.5°	9773.2	6076.1	3466.6	3062.4	3097.7	3219.8	3206.2	2872.6	2777.6	2736.9	2726.1
45°	10413.4	6043.5	3214.3	2913.3	3021.8	3111.3	3000.1	2796.6	2742.4	2709.8	2699.0
47.5°	11425.2	6081.5	2991.9	2802.0	2935.0	3002.8	2769.5	2745.1	2707.1	2661.0	2655.6
50°	12363.7	6046.2	2834.6	2739.7	2859.0	2872.6	2674.6	2682.7	2661.0	2609.5	2598.6
52.5°	13131.3	5935.0	2734.2	2707.1	2793.9	2644.7	2585.0	2614.9	2606.7	2541.6	2530.8
55°	13974.9	5867.2	2685.4	2707.1	2750.5	2446.7	2501.0	2544.4	2533.5	2487.4	2484.7
57.5°	14997.6	5880.8	2650.1	2715.2	2707.1	2346.3	2416.9	2468.4	2465.7	2452.1	2452.1
60°	16044.6	5886.2	2595.9	2712.5	2655.6	2267.7	2330.1	2403.3	2408.7	2416.9	2416.9
62.5°	16391.8	5650.2	2490.1	2663.7	2541.6	2191.7	2248.7	2349.0	2343.6	2365.3	2368.0
65°	15743.5	4996.5	2332.8	2552.5	2395.2	2137.5	2186.3	2278.5	2248.7	2305.6	2316.5
67.5°	14330.3	4133.9	2088.6	2351.8	2232.4	2080.5	2145.6	2180.9	2126.6	2237.8	2240.5
70°	12385.4	3227.9	1779.4	2066.9	2048.0	2020.8	2113.1	2058.8	1982.9	2118.5	2091.4
72.5°	10356.4	2465.7	1421.4	1689.9	1801.1	1931.3	2056.1	1901.5	1795.7	1836.4	1787.6
75°	7779.5	1822.8	1142.0	1323.7	1500.0	1803.8	2004.6	1711.6	1548.9	1510.9	1500.0
77.5°	3965.7	1190.8	854.4	990.1	1125.7	1630.2	1934.0	1489.2	1283.0	1223.4	1196.2
80°	1415.9	740.5	602.2	683.6	759.5	1402.4	1689.9	1231.5	995.5	984.6	995.5
82.5°	656.4	477.4	404.2	447.6	450.3	935.8	1288.5	919.5	756.8	1150.1	971.1
85°	282.1	238.7	227.9	222.4	206.2	417.7	724.2	493.7	770.4	344.5	317.4
87.5°	84.1	94.9	84.1	62.4	46.1	46.1	73.2	27.1	19.0	13.6	13.6
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)