

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: P456486

Luminaire Tested: **GLAN-SA7D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40204 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 433
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

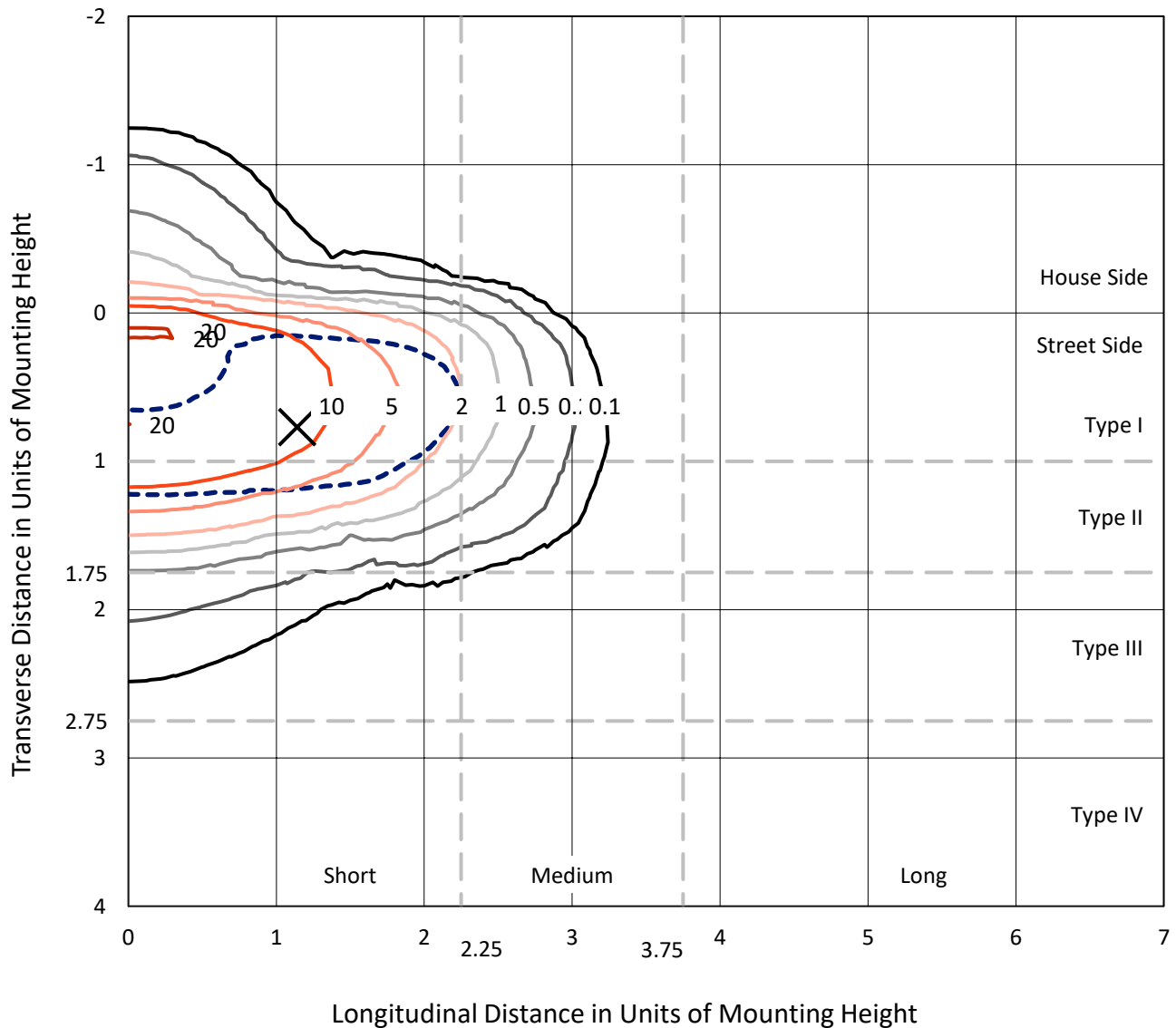


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

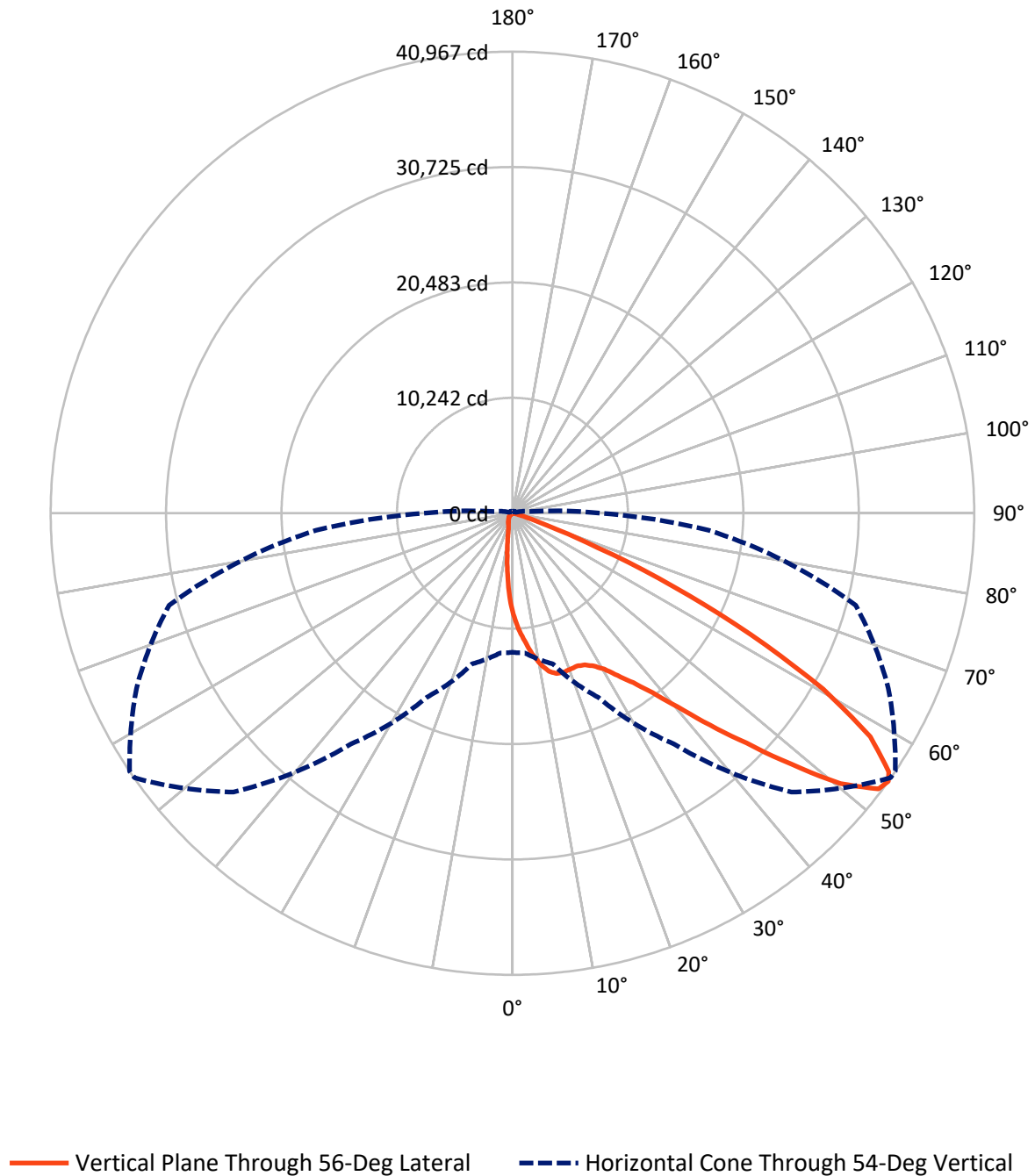


Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.1	0.0	1901.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	38302.8	0.0	38302.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	40204.0	0.0	40204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.3	2.0
10°-20°	2133.8	5.3
20°-30°	3695.5	9.2
30°-40°	6378.9	15.9
40°-50°	10857.2	27.0
50°-60°	10744.5	26.7
60°-70°	4904.0	12.2
70°-80°	629.8	1.6
80°-90°	71.0	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°	40204.0	100.0
0°-180°	40204.0	100.0

Coefficient of Utilization



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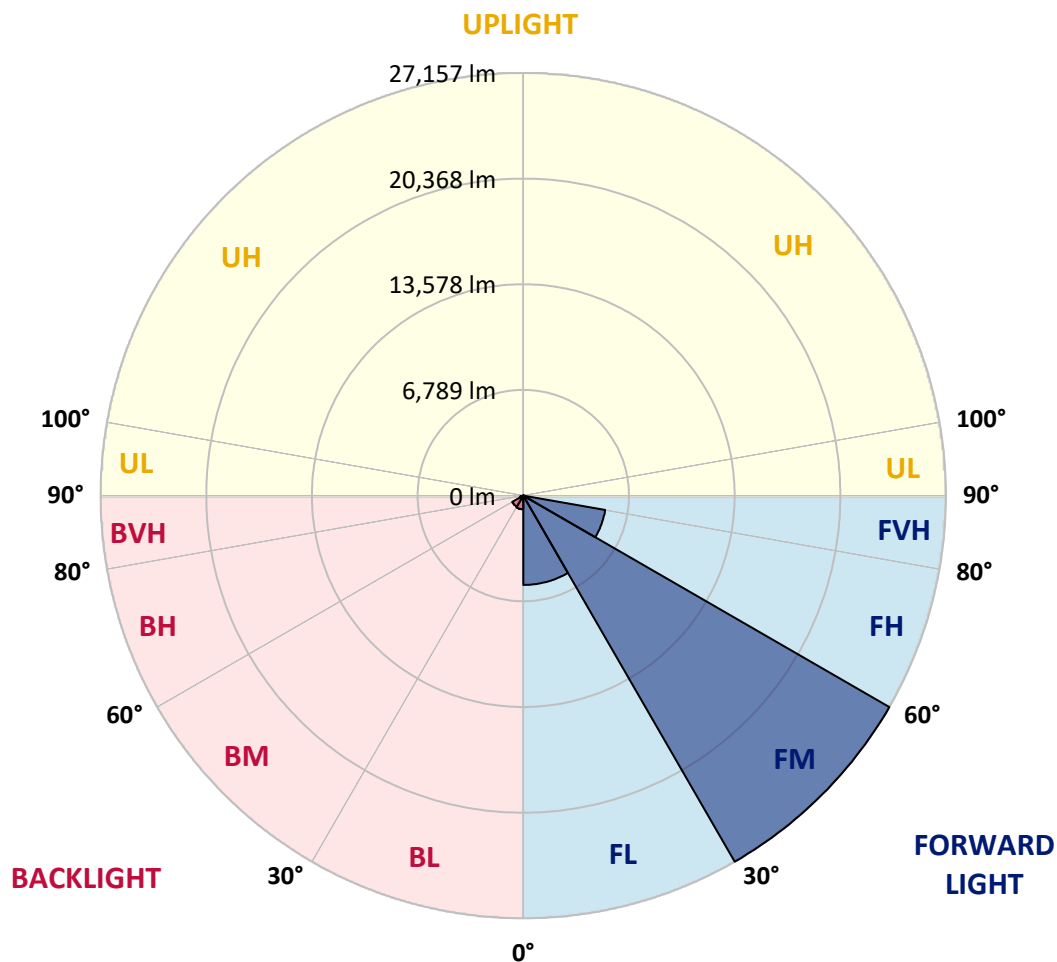
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5739.3	14.3			
FM	(30°-60°)	27156.8	67.5			
FH	(60°-80°)	5343.5	13.3			G3/7500
FVH	(80°-90°)	63.4	0.2			G1/100
BL	(0°-30°)	879.2	2.2	B2/1000		
BM	(30°-60°)	823.9	2.0	B1/1000		
BH	(60°-80°)	190.4	0.5	B1/500		G1/500
BVH	(80°-90°)	7.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2
2.5°	11351.7	11273.0	11164.5	11080.5	10882.4	10597.6	10296.5	10296.5	10006.3	9602.2	9189.9
5°	13093.1	13041.6	12935.8	12718.8	12496.4	12097.6	11492.7	11387.0	10868.9	10136.5	9366.2
7.5°	13801.1	13825.5	13830.9	13773.9	13668.2	13274.8	12675.4	12602.1	11774.8	10792.9	9596.7
10°	13122.9	13242.3	13358.9	13594.9	13928.5	14023.5	13684.4	13608.5	12794.7	11457.5	9846.3
12.5°	12113.9	12179.0	12244.1	12615.7	13285.7	14053.3	14408.7	14405.9	13717.0	12119.3	10163.6
15°	11644.6	11701.6	11707.0	11872.5	12453.0	13570.5	14717.9	14758.6	14617.5	12935.8	10505.4
17.5°	11742.3	11788.4	11750.4	11791.1	12094.9	13038.9	14682.6	14818.2	15347.2	13719.7	10814.6
20°	12379.7	12469.2	12322.8	12208.8	12301.1	12897.8	14563.3	14753.1	15862.5	14484.6	11096.7
22.5°	13524.4	13573.2	13388.8	13076.8	12914.1	13193.5	14530.7	14717.9	16302.0	15111.2	11259.5
25°	14796.5	14780.3	14576.8	14226.9	13885.1	13790.2	14745.0	14913.2	16665.4	15675.4	11308.3
27.5°	16068.7	16117.5	15775.7	15341.7	14932.2	14685.3	15225.1	15349.9	17075.0	16318.2	11368.0
30°	17547.0	17468.3	17132.0	16635.6	16166.3	15821.9	15998.2	16033.4	17639.2	17170.0	11525.3
32.5°	19470.1	19253.1	18876.1	18008.1	17671.8	17088.6	17132.0	17175.4	18325.5	18013.5	11715.2
35°	22079.5	22068.7	21330.9	20161.8	19342.6	18618.4	18428.5	18463.8	19364.3	19266.7	12135.6
37.5°	25220.6	25264.0	24423.1	23245.9	21737.8	20587.7	20197.1	20202.5	20943.0	20997.3	12775.7
40°	27778.4	27892.4	27390.6	26595.8	25106.6	23308.3	22651.9	22592.2	23161.8	23094.0	13689.9
42.5°	28879.7	28985.5	29172.6	29449.3	28630.2	27146.4	25597.6	25679.0	25852.6	25377.9	14715.2
45°	28339.9	28508.1	29243.2	30952.0	31722.4	31223.3	29376.1	29091.3	28356.2	27859.8	15745.9
47.5°	26091.3	26500.9	27729.6	30575.0	33271.2	34958.4	33640.1	33263.1	30862.5	29671.7	16402.3
50°	22394.2	22418.6	24130.2	27767.6	32468.3	37315.5	37993.6	37711.5	33198.0	30688.9	16733.2
52.5°	16234.2	16768.5	18336.3	22548.8	28990.9	36957.4	40768.5	40651.8	35606.6	31209.7	17210.6
54°	12341.8	12444.8	13839.0	18019.0	24995.4	34990.9	40939.4	40966.5	36802.8	31524.4	17492.7
55°	10117.5	9870.7	11335.4	15349.9	22269.4	33252.2	40380.6	40510.8	37339.9	31687.1	17701.6
57.5°	4795.7	4798.4	5918.6	8096.7	13947.5	25820.0	36965.6	37426.7	37399.6	31966.5	18344.5
60°	2427.7	2443.9	2690.8	3737.8	6889.7	17164.5	30564.1	31662.7	34521.6	32007.2	18556.0
62.5°	1698.0	1679.0	1638.3	1798.4	2899.6	8723.3	22754.9	23709.7	29330.0	30458.4	17883.3
65°	1453.9	1413.2	1299.3	1274.9	1464.7	3474.7	14172.7	15729.6	22394.2	26373.4	15968.3
67.5°	1242.3	1226.0	1123.0	1060.6	1036.2	1513.6	7312.8	8132.0	15306.5	18957.5	12094.9
70°	1055.2	1047.0	984.6	906.0	838.2	906.0	2712.5	3360.8	8530.7	10207.0	5707.0
72.5°	857.1	865.3	876.1	775.8	705.2	642.9	1158.2	1348.1	3569.6	3648.3	1996.4
75°	751.4	743.2	743.2	675.4	588.6	477.4	637.4	686.3	1093.1	1014.5	463.8
77.5°	528.9	509.9	596.7	556.1	491.0	339.1	363.5	385.2	453.0	387.9	217.0
80°	366.2	366.2	382.5	499.1	442.1	246.8	222.4	238.7	268.5	230.6	124.8
82.5°	206.1	211.6	249.5	265.8	257.7	165.5	146.5	149.2	179.0	157.3	78.7
85°	24.4	40.7	143.8	141.0	105.8	73.2	81.4	84.1	111.2	97.6	46.1
87.5°	2.7	5.4	29.8	38.0	27.1	29.8	29.8	29.8	38.0	43.4	32.5
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°	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2	8932.2
2.5°	8967.4	8761.3	8270.3	7700.7	7337.2	6745.9	6246.8	5886.1	5796.6	5623.0	5674.5
5°	8956.6	8528.0	7527.1	6469.2	5340.9	4500.0	3873.4	3379.7	3162.7	3019.0	2918.6
7.5°	8962.0	8292.0	6686.2	5001.8	3653.7	2829.1	2248.6	1947.6	1746.8	1662.7	1673.6
10°	8978.3	8026.2	5709.8	3705.2	2465.6	1828.2	1472.9	1329.1	1261.3	1250.4	1247.7
12.5°	9016.3	7736.0	4776.7	2750.4	1725.1	1329.1	1193.5	1144.7	1123.0	1123.0	1114.8
15°	9056.9	7415.9	4000.9	2045.2	1329.1	1142.0	1079.6	1055.2	1041.6	1041.6	1038.9
17.5°	9056.9	7047.0	3276.7	1586.8	1144.7	1049.7	1000.9	968.4	957.5	957.5	954.8
20°	9000.0	6618.4	2633.8	1277.6	1038.9	962.9	914.1	878.8	865.3	859.9	857.1
22.5°	8802.0	6046.1	2096.7	1098.6	952.1	887.0	824.6	783.9	773.1	767.6	770.3
25°	8449.4	5400.5	1660.0	965.6	873.4	794.8	740.5	710.7	699.8	699.8	702.5
27.5°	8085.9	4725.1	1315.5	865.3	778.5	708.0	664.6	645.6	642.9	651.0	653.7
30°	7749.5	4047.0	1066.0	783.9	694.4	634.7	604.9	599.5	599.5	602.2	604.9
32.5°	7375.2	3453.0	892.4	713.4	626.6	575.0	558.8	558.8	564.2	564.2	569.6
35°	7139.2	2943.0	783.9	645.6	575.0	531.6	520.8	523.5	531.6	542.5	547.9
37.5°	7011.7	2536.2	713.4	591.3	526.2	496.4	485.5	491.0	509.9	528.9	531.6
40°	7022.6	2229.7	656.4	545.2	488.2	455.7	447.6	463.8	482.8	501.8	504.5
42.5°	7141.9	2001.8	602.2	491.0	455.7	409.6	406.9	423.1	431.3	450.3	453.0
45°	7283.0	1836.3	545.2	434.0	396.0	355.3	358.0	371.6	382.5	412.3	417.7
47.5°	7326.4	1722.4	480.1	368.9	325.5	311.9	314.6	322.8	344.5	371.6	374.3
50°	7375.2	1651.9	417.7	311.9	276.7	274.0	276.7	282.1	295.7	306.5	303.8
52.5°	7584.1	1649.2	366.2	271.2	236.0	241.4	244.1	241.4	230.6	214.3	208.9
54°	7779.4	1657.3	341.8	252.3	217.0	225.1	222.4	208.9	181.7	165.5	157.3
55°	7936.7	1665.5	328.2	238.7	206.1	208.9	211.6	184.4	149.2	132.9	127.5
57.5°	8245.9	1646.5	295.7	208.9	181.7	170.9	168.2	122.1	81.4	70.5	65.1
60°	8091.3	1486.4	268.5	179.0	154.6	138.3	113.9	67.8	40.7	29.8	29.8
62.5°	7483.7	1261.3	238.7	146.5	127.5	105.8	59.7	38.0	19.0	10.8	8.1
65°	6694.4	1060.6	214.3	116.6	100.4	67.8	32.5	24.4	8.1	0.0	0.0
67.5°	4977.4	786.6	181.7	92.2	75.9	43.4	21.7	13.6	2.7	0.0	0.0
70°	2305.6	480.1	154.6	70.5	54.2	32.5	16.3	8.1	0.0	0.0	0.0
72.5°	661.8	301.1	127.5	51.5	38.0	27.1	13.6	5.4	2.7	0.0	0.0
75°	230.6	241.4	94.9	38.0	29.8	19.0	10.8	5.4	2.7	0.0	0.0
77.5°	138.3	195.3	59.7	32.5	24.4	16.3	10.8	5.4	2.7	2.7	0.0
80°	78.7	130.2	38.0	27.1	21.7	13.6	8.1	5.4	2.7	2.7	0.0
82.5°	43.4	62.4	29.8	24.4	19.0	13.6	8.1	5.4	2.7	2.7	2.7
85°	35.3	32.5	24.4	21.7	16.3	10.8	8.1	2.7	0.0	0.0	0.0
87.5°	27.1	21.7	21.7	21.7	16.3	10.8	8.1	2.7	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)