

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: McGRAW-EDISON

Report Number: P456507

Luminaire Tested: **GALN-SA7D-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50216 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

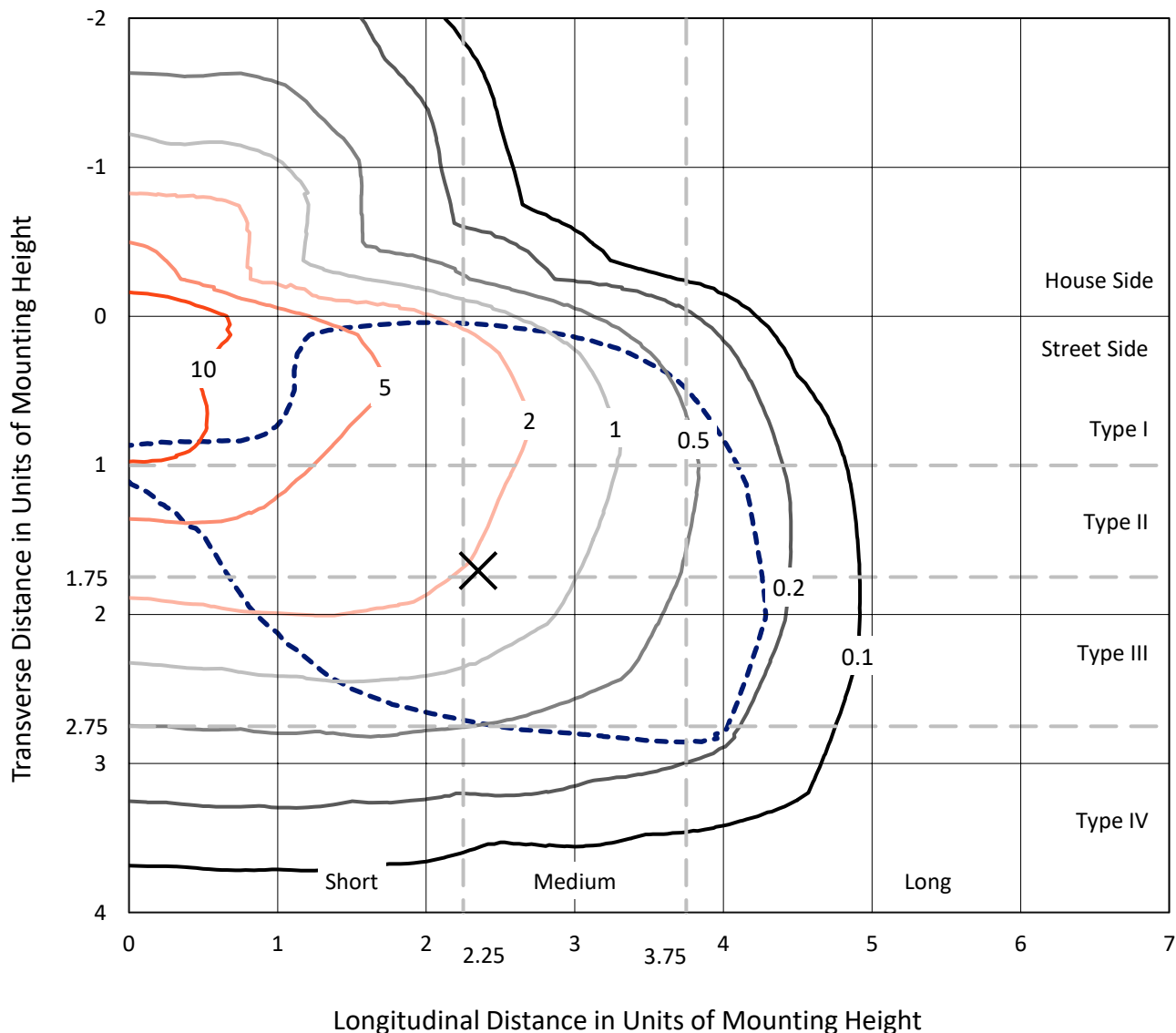
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

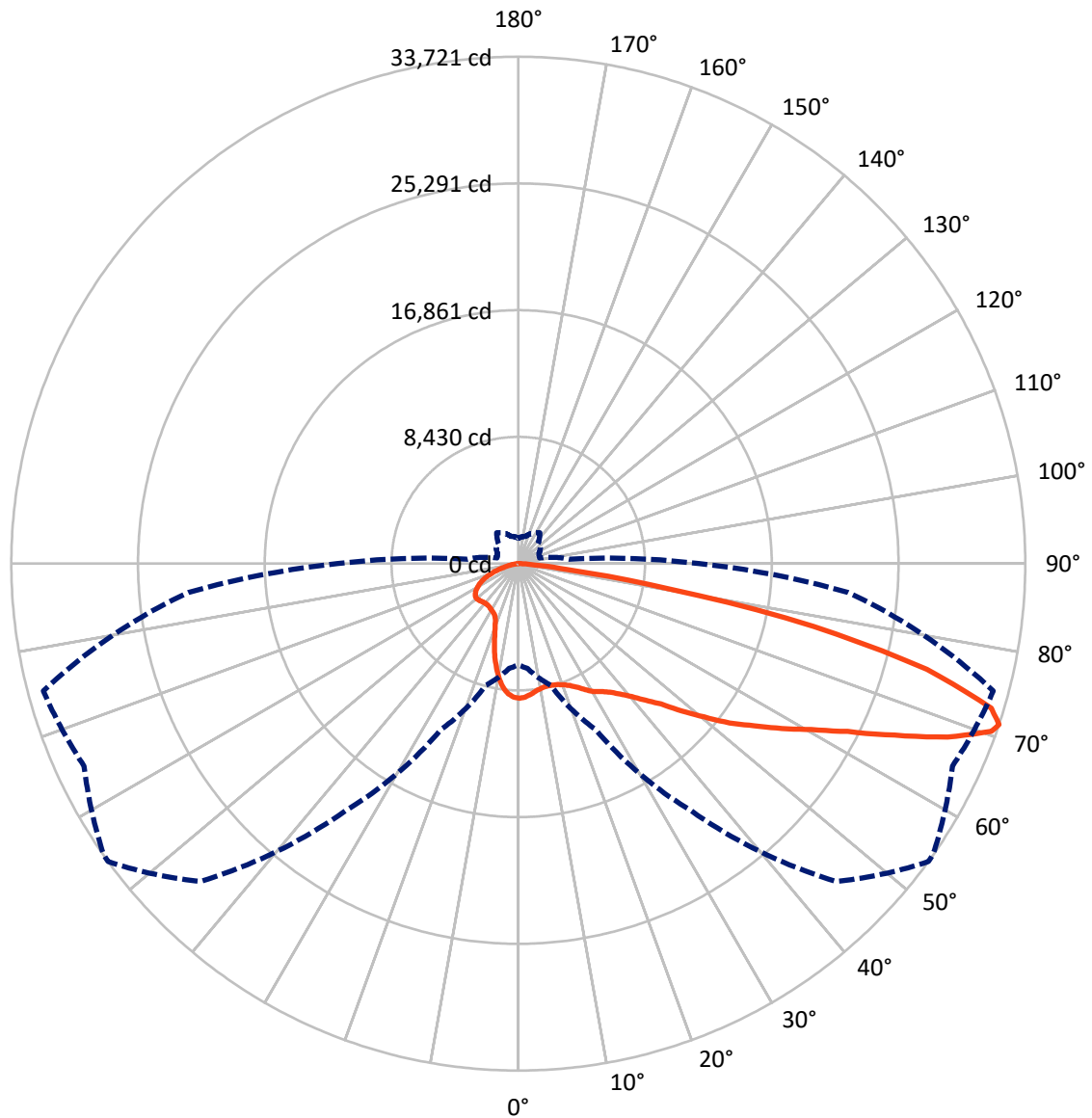
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9066.2	0.0	9066.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41149.8	0.0	41149.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	50216.0	0.0	50216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.4	1.6
10°-20°	2108.2	4.2
20°-30°	3510.2	7.0
30°-40°	5190.5	10.3
40°-50°	7311.0	14.6
50°-60°	9789.7	19.5
60°-70°	12339.2	24.6
70°-80°	8427.6	16.8
80°-90°	741.2	1.5
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°	50216.0	100.0
0°-180°	50216.0	100.0

Coefficient of Utilization

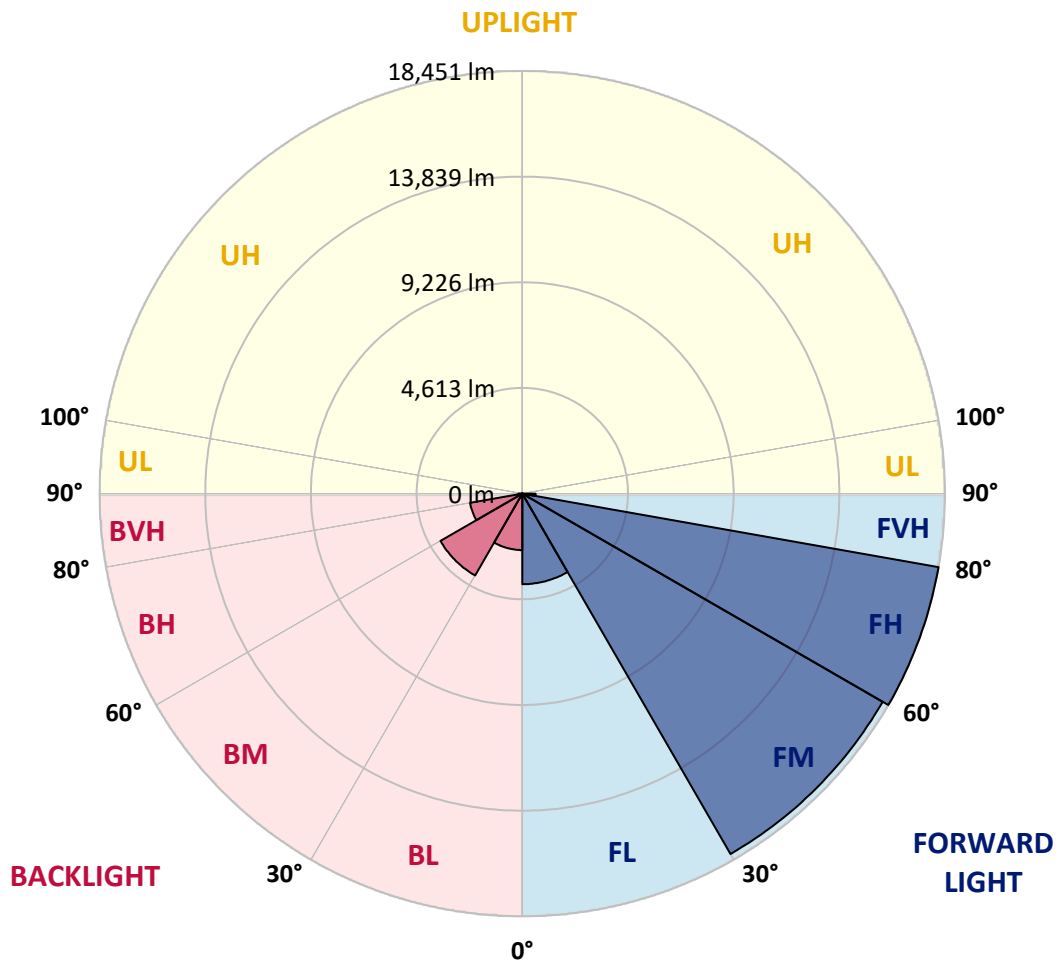


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3952.8	7.9			
FM	(30°-60°)	18166.3	36.2			
FH	(60°-80°)	18451.3	36.7			G5
FVH	(80°-90°)	579.3	1.2			G4/750
BL	(0°-30°)	2464.0	4.9	B3/2500		
BM	(30°-60°)	4124.9	8.2	B3/5000		
BH	(60°-80°)	2315.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	161.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3
2.5°	8655.5	8696.2	8707.0	8734.1	8791.1	8837.2	8883.3	8877.9	8943.0	8970.1	8994.5
5°	8270.3	8281.2	8321.8	8376.1	8476.5	8603.9	8728.7	8731.4	8891.5	9019.0	9081.3
7.5°	7988.2	8023.5	8050.6	8107.6	8213.3	8351.7	8549.7	8566.0	8850.8	9103.0	9235.9
10°	7803.8	7844.5	7874.3	7944.8	8050.6	8205.2	8419.5	8449.3	8820.9	9235.9	9469.2
12.5°	7635.6	7676.3	7703.4	7795.6	7934.0	8123.8	8365.2	8400.5	8831.8	9390.6	9724.2
15°	7738.7	7771.2	7760.4	7787.5	7879.7	8096.7	8386.9	8422.2	8872.5	9539.7	9976.5
17.5°	8197.1	8224.2	8134.7	8031.6	7988.2	8148.3	8454.8	8492.7	8953.9	9694.4	10234.1
20°	8872.5	8945.7	8750.4	8519.9	8311.0	8332.7	8595.8	8636.5	9067.8	9849.0	10497.2
22.5°	9751.3	9805.6	9566.9	9187.1	8802.0	8603.9	8807.4	8831.8	9238.7	10049.7	10784.8
25°	10784.8	10817.3	10486.4	9998.2	9442.1	9067.8	9097.6	9141.0	9520.8	10277.5	11039.7
27.5°	11788.4	11891.5	11509.0	10912.3	10179.9	9556.0	9496.3	9523.5	9827.3	10405.0	11216.1
30°	12979.2	12971.0	12566.9	11875.2	10936.7	10087.7	9873.4	9868.0	9992.7	10467.4	11343.5
32.5°	13928.5	14039.7	13643.7	12889.6	11801.9	10638.3	10133.8	10122.9	10120.2	10575.9	11533.4
35°	15008.1	15024.4	14660.9	13901.4	12737.7	11330.0	10497.2	10443.0	10380.6	10809.2	11791.1
37.5°	15973.7	16049.7	15716.0	14864.3	13657.3	12048.8	10996.3	10961.1	10771.2	11213.3	12203.4
40°	16727.8	16784.7	16584.0	15773.0	14563.2	12824.5	11631.1	11566.0	11335.4	11875.2	12754.0
42.5°	16974.6	17091.3	17169.9	16771.2	15604.8	13744.1	12412.2	12330.9	12154.6	12878.8	13388.7
45°	16993.6	17178.1	17593.1	17612.0	16651.8	14845.3	13323.6	13266.7	13253.1	14164.5	14281.1
47.5°	16849.8	17037.0	17734.1	18111.1	17584.9	15957.4	14639.2	14549.7	14557.8	15754.0	15282.0
50°	16502.6	16725.1	17571.4	18431.2	18314.6	17113.0	16028.0	15998.1	16166.3	17568.6	16320.9
52.5°	15848.9	16117.5	17403.2	18631.9	18857.1	18108.4	17606.6	17522.5	17948.4	19537.9	17457.4
55°	14039.7	14443.9	16787.5	18743.1	19372.4	19060.5	19028.0	19179.9	19744.0	21686.2	18707.9
57.5°	13095.8	13399.6	15450.2	18762.1	20023.4	20167.2	20688.0	20726.0	21713.3	23967.4	20121.1
60°	12580.4	12849.0	14717.8	18637.4	20932.1	21537.0	22386.0	22521.6	23636.4	26438.4	21585.8
62.5°	12130.2	12360.7	14278.4	18206.1	21957.4	23568.6	24585.8	24650.9	25820.0	29167.2	23031.6
65°	11069.6	11332.7	13394.2	17774.8	22841.7	26107.5	27504.4	27428.5	28144.6	31521.6	23937.5
67.5°	9640.1	9973.7	11742.3	16285.7	23278.4	28882.3	30791.9	30697.0	30439.3	33065.0	24197.9
70°	7814.6	7993.6	9629.3	13711.5	21534.3	30338.9	33387.8	33287.4	31860.6	33268.4	22966.5
71°	6724.2	7003.6	8384.2	12179.0	20083.1	29894.1	33721.4	33694.3	31863.3	32706.9	22038.8
72.5°	5248.6	5419.5	6640.1	9436.7	17069.6	27366.1	32896.8	32999.9	31171.7	31147.3	20126.5
75°	3320.1	3396.0	4166.3	5555.1	9366.1	19380.6	28082.2	28361.6	27678.0	25494.5	14967.4
77.5°	1928.6	2026.2	2495.5	3273.9	4047.0	10518.9	20094.0	20397.8	19231.4	14037.0	6127.5
80°	1123.0	1231.5	1643.8	1901.4	1858.0	3903.2	10231.4	10749.5	8327.3	3545.2	1719.7
82.5°	623.9	697.1	1155.5	1158.2	990.1	1274.9	3219.7	3368.9	2376.1	1429.5	702.5
85°	453.0	512.7	745.9	675.4	474.7	547.9	1120.2	1174.5	960.2	602.2	227.8
87.5°	160.0	227.8	409.6	325.5	130.2	113.9	322.8	263.1	244.1	168.2	51.5
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°	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3	8959.3
2.5°	9008.1	9013.5	8986.4	8937.6	8888.8	8826.4	8755.8	8701.6	8677.2	8674.5	8671.8
5°	9105.8	9119.3	9016.2	8864.3	8696.2	8490.0	8313.7	8113.0	8061.5	7980.1	8004.5
7.5°	9263.1	9254.9	9051.5	8728.7	8335.4	7898.7	7529.8	7315.5	7093.1	7030.7	7033.4
10°	9488.2	9436.7	9051.5	8452.0	7795.6	7147.4	6632.0	6306.5	6130.2	5983.7	5929.5
12.5°	9726.9	9596.7	8964.7	8064.2	7101.2	6306.5	5753.1	5313.7	5199.8	5080.5	5083.2
15°	9954.8	9737.8	8793.8	7519.0	6352.6	5408.7	4871.6	4608.5	4573.2	4586.8	4584.1
17.5°	10160.9	9838.1	8533.4	6911.4	5479.2	4638.3	4353.5	4372.5	4467.4	4535.2	4543.4
20°	10369.8	9897.8	8145.5	6097.6	4654.6	4171.8	4182.6	4331.8	4475.6	4567.8	4581.4
22.5°	10567.8	9924.9	7689.8	5311.0	4057.9	3973.8	4133.8	4293.8	4434.9	4524.4	4538.0
25°	10698.0	9862.5	7044.3	4489.1	3764.9	3903.2	4071.4	4207.0	4326.4	4418.6	4440.3
27.5°	10733.2	9661.8	6244.1	3824.6	3629.3	3835.4	3990.0	4090.4	4182.6	4269.4	4285.7
30°	10714.2	9366.1	5365.3	3434.0	3550.6	3756.8	3876.1	3949.4	4060.6	4128.4	4141.9
32.5°	10684.4	9021.7	4448.4	3225.1	3485.5	3683.5	3754.1	3819.2	3816.4	3789.3	3808.3
35°	10695.3	8609.4	3705.2	3100.3	3428.6	3629.3	3689.0	3607.6	3374.3	3363.5	3352.6
37.5°	10752.2	8202.5	3165.4	3013.6	3398.7	3621.1	3653.7	3279.4	3073.2	2978.3	2953.9
40°	10898.7	7727.8	2810.1	2948.5	3396.0	3683.5	3493.7	3113.9	2717.9	2533.4	2519.9
42.5°	11094.0	7261.3	2593.1	2907.8	3428.6	3778.5	3428.6	2880.6	2449.4	2340.9	2324.6
45°	11384.2	6726.9	2473.8	2888.8	3477.4	3813.7	3406.9	2709.8	2340.9	2254.1	2254.1
47.5°	11712.4	6217.0	2408.7	2875.2	3539.8	3789.3	3214.3	2655.5	2289.3	2300.2	2351.7
50°	12037.9	5774.8	2359.8	2845.4	3594.0	3775.8	3135.6	2652.8	2302.9	2441.2	2533.4
52.5°	12415.0	5462.9	2300.2	2796.6	3594.0	3689.0	3111.2	2707.0	2340.9	2381.5	2422.2
55°	12870.7	5365.3	2224.2	2690.8	3528.9	3472.0	3097.6	2785.7	2368.0	2273.0	2289.3
57.5°	13472.8	5522.6	2151.0	2557.9	3379.7	3246.8	3092.2	2807.4	2305.6	2226.9	2210.7
60°	14172.6	5834.5	2129.3	2422.2	3176.3	3054.2	3059.7	2745.0	2218.8	2137.4	2151.0
62.5°	14663.6	6021.7	2115.7	2319.2	2953.9	2842.7	2981.0	2669.1	2180.8	2110.3	2123.9
65°	14663.6	5793.8	1991.0	2161.8	2666.4	2587.7	2886.1	2574.1	2132.0	2050.6	2037.1
67.5°	14107.5	5129.3	1801.1	1925.9	2349.0	2297.5	2753.2	2460.2	2058.8	1996.4	1963.8
70°	12659.1	3889.7	1562.4	1649.2	1947.6	1993.7	2582.3	2305.6	1936.7	1860.8	1811.9
71°	12021.7	3387.9	1462.0	1508.1	1792.9	1860.8	2500.9	2240.5	1882.5	1774.0	1687.2
72.5°	10792.9	2853.5	1310.1	1329.1	1532.5	1654.6	2330.0	2115.7	1779.4	1624.8	1527.1
75°	8199.8	2083.2	1055.1	1044.3	1133.8	1312.8	1972.0	1885.2	1559.7	1350.8	1293.8
77.5°	3542.5	1133.8	789.3	797.5	770.3	995.5	1551.5	1619.3	1337.2	1098.5	1047.0
80°	1074.1	653.7	539.8	550.6	515.4	667.3	1093.1	1269.4	1074.1	854.4	783.9
82.5°	550.6	390.6	368.9	363.5	328.2	377.0	661.8	868.0	767.6	534.4	472.0
85°	238.7	208.9	181.7	176.3	154.6	135.6	236.0	434.0	406.9	298.4	284.8
87.5°	59.7	54.2	35.3	32.5	19.0	2.7	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)