

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: P457203

Luminaire Tested: **GALN-SA8C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457203
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-SA8C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52908 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

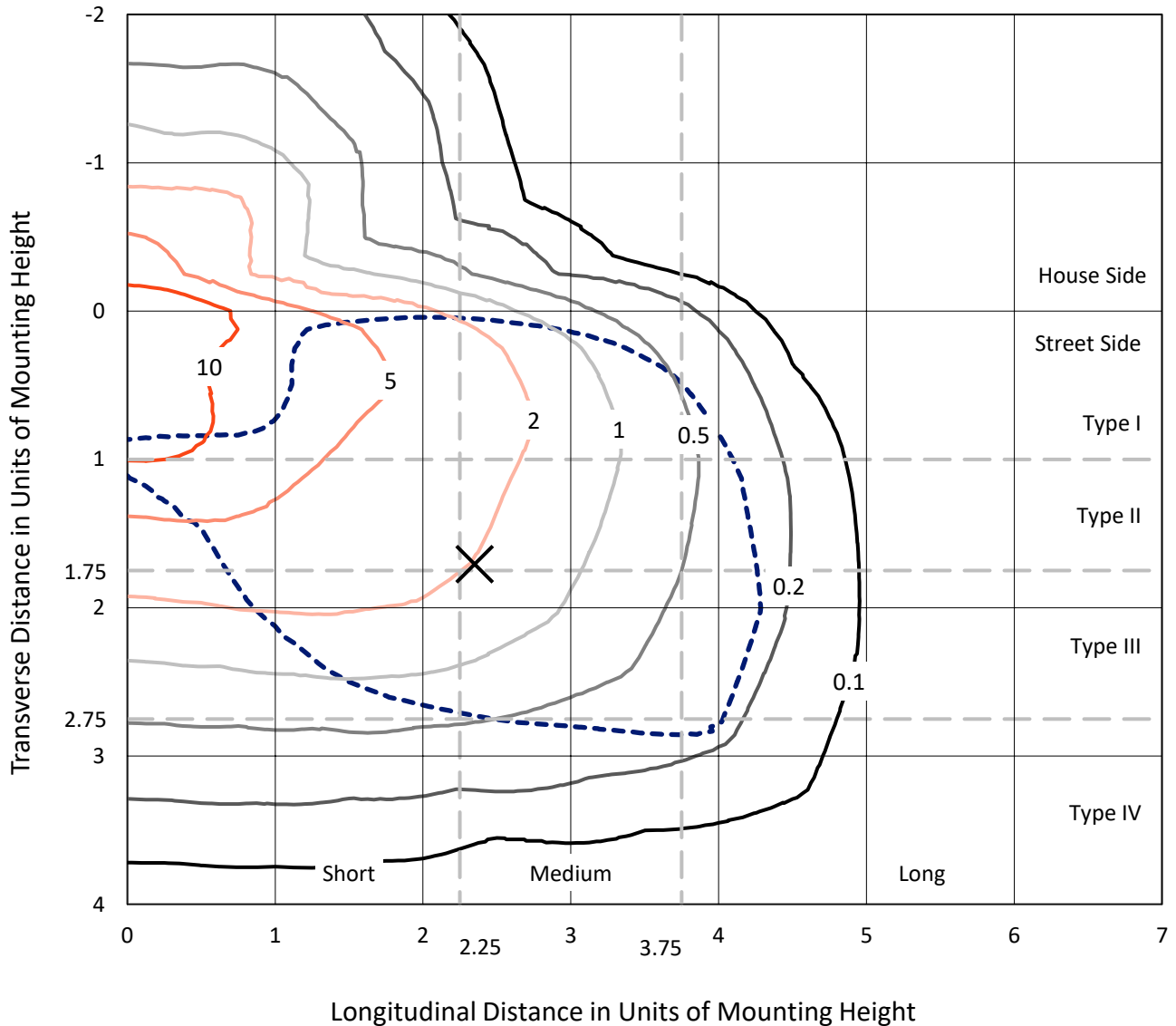
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

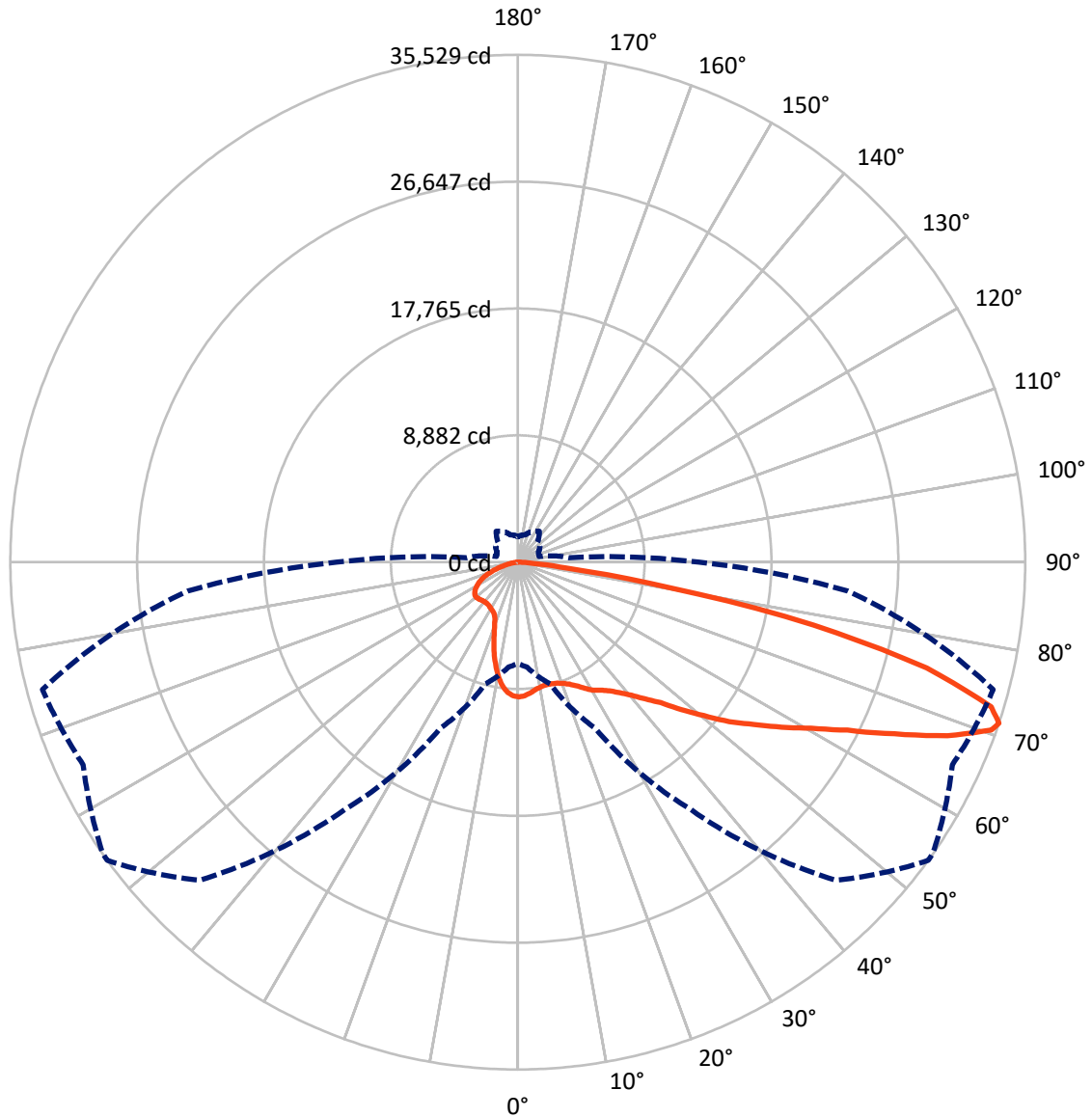
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	9552.2	0.0	9552.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	43355.8	0.0	43355.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	52908.0	0.0	52908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.2	1.6
10°-20°	2221.2	4.2
20°-30°	3698.4	7.0
30°-40°	5468.7	10.3
40°-50°	7702.9	14.6
50°-60°	10314.5	19.5
60°-70°	13000.7	24.6
70°-80°	8879.4	16.8
80°-90°	780.9	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°	52908.0	100.0
0°-180°	52908.0	100.0

Coefficient of Utilization



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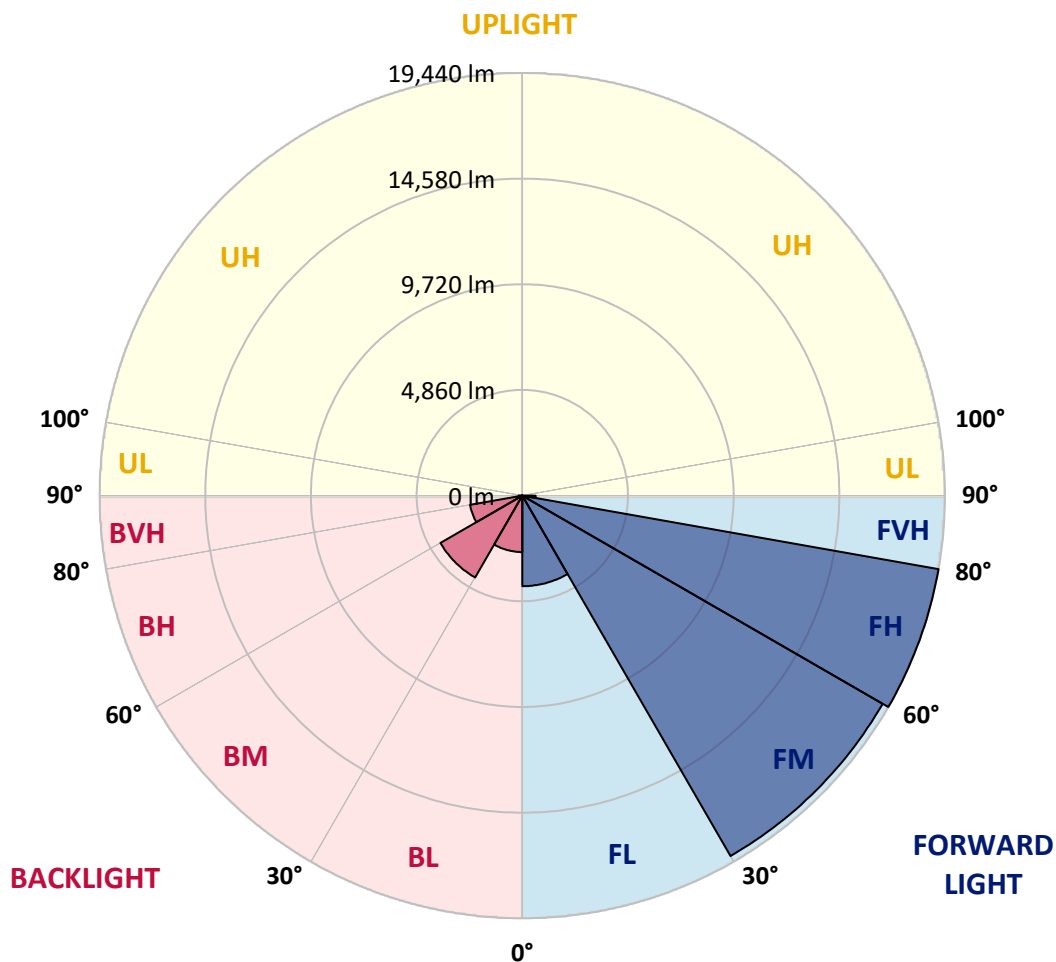
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4164.7	7.9			
FM	(30°-60°)	19140.2	36.2			
FH	(60°-80°)	19440.5	36.7			G5
FVH	(80°-90°)	610.4	1.2			G4/750
BL	(0°-30°)	2596.1	4.9	B4/5000		
BM	(30°-60°)	4346.0	8.2	B3/5000		
BH	(60°-80°)	2439.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	170.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6
2.5°	9119.5	9162.4	9173.8	9202.4	9262.4	9311.0	9359.6	9353.8	9422.4	9451.0	9476.7
5°	8713.7	8725.1	8768.0	8825.1	8930.9	9065.2	9196.7	9199.5	9368.1	9502.4	9568.2
7.5°	8416.5	8453.6	8482.2	8542.2	8653.7	8799.4	9008.0	9025.2	9325.3	9591.0	9731.1
10°	8222.1	8265.0	8296.4	8370.7	8482.2	8645.1	8870.9	8902.3	9293.8	9731.1	9976.9
12.5°	8044.9	8087.8	8116.4	8213.5	8359.3	8559.3	8813.7	8850.8	9305.3	9894.0	10245.5
15°	8153.5	8187.8	8176.4	8205.0	8302.1	8530.8	8836.6	8873.7	9348.1	10051.2	10511.3
17.5°	8636.5	8665.1	8570.8	8462.2	8416.5	8585.1	8908.0	8948.0	9433.9	10214.1	10782.8
20°	9348.1	9425.3	9219.5	8976.6	8756.5	8779.4	9056.6	9099.5	9553.9	10377.0	11060.0
22.5°	10274.1	10331.2	10079.7	9679.6	9273.8	9065.2	9279.5	9305.3	9733.9	10588.4	11362.9
25°	11362.9	11397.2	11048.6	10534.1	9948.3	9553.9	9585.3	9631.0	10031.2	10828.5	11631.6
27.5°	12420.3	12528.9	12126.0	11497.2	10725.6	10068.3	10005.4	10034.0	10354.1	10962.8	11817.3
30°	13674.9	13666.4	13240.5	12511.8	11523.0	10628.4	10402.7	10397.0	10528.4	11028.6	11951.6
32.5°	14675.2	14792.4	14375.1	13580.6	12434.6	11208.6	10677.0	10665.6	10662.7	11142.9	12151.7
35°	15812.6	15829.8	15446.8	14646.6	13420.6	11937.4	11060.0	11002.8	10937.1	11388.6	12423.2
37.5°	16830.0	16910.1	16558.5	15661.2	14389.4	12694.7	11585.8	11548.7	11348.6	11814.5	12857.6
40°	17624.5	17684.5	17473.1	16618.6	15343.9	13512.0	12254.6	12186.0	11943.1	12511.8	13437.7
42.5°	17884.6	18007.5	18090.4	17670.3	16441.4	14480.9	13077.6	12991.9	12806.2	13569.2	14106.5
45°	17904.6	18098.9	18536.2	18556.2	17544.5	15641.2	14037.9	13977.9	13963.6	14923.8	15046.7
47.5°	17753.1	17950.3	18684.8	19082.1	18527.6	16812.9	15424.0	15329.7	15338.2	16598.6	16101.3
50°	17387.3	17621.7	18513.3	19419.3	19296.4	18030.4	16887.2	16855.8	17033.0	18510.5	17195.9
52.5°	16698.6	16981.5	18336.1	19630.8	19868.0	19079.2	18550.5	18461.9	18910.6	20585.3	18393.3
55°	14792.4	15218.2	17687.4	19747.9	20411.0	20082.3	20048.0	20208.1	20802.5	22848.7	19710.8
57.5°	13797.8	14117.9	16278.5	19767.9	21096.9	21248.3	21797.0	21837.0	22877.3	25252.2	21199.7
60°	13254.8	13537.8	15506.8	19636.5	22054.2	22691.6	23586.1	23729.0	24903.5	27855.7	22743.0
62.5°	12780.4	13023.3	15043.9	19182.1	23134.5	24832.1	25903.8	25972.4	27204.1	30730.8	24266.2
65°	11663.0	11940.2	14112.2	18727.7	24066.2	27507.1	28978.9	28898.9	29653.3	33211.4	25220.8
67.5°	10156.9	10508.4	12371.8	17158.7	24526.3	30430.7	32442.6	32342.6	32071.1	34837.5	25495.1
70°	8233.5	8422.2	10145.5	14446.6	22688.7	31965.4	35177.6	35071.9	33568.6	35051.9	24197.7
71°	7084.7	7379.0	8833.7	12831.9	21159.7	31496.7	35529.1	35500.6	33571.5	34460.3	23220.3
72.5°	5530.0	5710.0	6996.1	9942.6	17984.6	28833.1	34660.3	34768.9	32842.7	32817.0	21205.5
75°	3498.0	3578.1	4389.7	5852.9	9868.3	20419.5	29587.6	29882.0	29161.8	26861.2	15769.8
77.5°	2032.0	2134.8	2629.2	3449.5	4264.0	11082.9	21171.2	21491.2	20262.4	14789.5	6455.9
80°	1183.2	1297.5	1731.9	2003.4	1957.6	4112.5	10779.9	11325.8	8773.7	3735.2	1811.9
82.5°	657.3	734.5	1217.5	1220.3	1043.1	1343.2	3392.3	3549.5	2503.5	1506.1	740.2
85°	477.3	540.1	785.9	711.6	500.1	577.3	1180.3	1237.5	1011.7	634.4	240.1
87.5°	168.6	240.1	431.5	342.9	137.2	120.0	340.1	277.2	257.2	177.2	54.3
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°	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6	9439.6
2.5°	9491.0	9496.7	9468.1	9416.7	9365.3	9299.5	9225.2	9168.1	9142.4	9139.5	9136.6
5°	9593.9	9608.2	9499.6	9339.5	9162.4	8945.2	8759.4	8547.9	8493.6	8407.9	8433.6
7.5°	9759.7	9751.1	9536.7	9196.7	8782.3	8322.1	7933.5	7707.7	7473.4	7407.6	7410.5
10°	9996.9	9942.6	9536.7	8905.1	8213.5	7530.5	6987.5	6644.6	6458.8	6304.5	6247.3
12.5°	10248.4	10111.2	9445.3	8496.5	7481.9	6644.6	6061.6	5598.6	5478.6	5352.8	5355.7
15°	10488.4	10259.8	9265.2	7922.0	6693.1	5698.6	5132.7	4855.5	4818.4	4832.7	4829.8
17.5°	10705.6	10365.5	8990.9	7281.9	5772.9	4887.0	4586.9	4606.9	4706.9	4778.4	4786.9
20°	10925.7	10428.4	8582.2	6424.5	4904.1	4395.4	4406.8	4564.0	4715.5	4812.7	4827.0
22.5°	11134.3	10457.0	8102.1	5595.7	4275.4	4186.8	4355.4	4524.0	4672.6	4766.9	4781.2
25°	11271.5	10391.2	7421.9	4729.8	3966.7	4112.5	4289.7	4432.6	4558.3	4655.5	4678.3
27.5°	11308.6	10179.8	6578.8	4029.6	3823.8	4041.0	4203.9	4309.7	4406.8	4498.3	4515.4
30°	11288.6	9868.3	5652.9	3618.1	3741.0	3958.2	4083.9	4161.1	4278.2	4349.7	4364.0
32.5°	11257.2	9505.3	4686.9	3398.0	3672.4	3881.0	3955.3	4023.9	4021.0	3992.5	4012.5
35°	11268.6	9070.9	3903.9	3266.6	3612.4	3823.8	3886.7	3801.0	3555.2	3543.8	3532.3
37.5°	11328.6	8642.2	3335.1	3175.1	3580.9	3815.3	3849.6	3455.2	3238.0	3137.9	3112.2
40°	11483.0	8142.1	2960.8	3106.5	3578.1	3881.0	3680.9	3280.8	2863.6	2669.3	2655.0
42.5°	11688.7	7650.5	2732.1	3063.6	3612.4	3981.0	3612.4	3035.1	2580.7	2466.3	2449.2
45°	11994.5	7087.5	2606.4	3043.6	3663.8	4018.2	3589.5	2855.0	2466.3	2374.9	2374.9
47.5°	12340.3	6550.3	2537.8	3029.4	3729.5	3992.5	3386.6	2797.9	2412.0	2423.5	2477.8
50°	12683.3	6084.4	2486.4	2997.9	3786.7	3978.2	3303.7	2795.0	2426.3	2572.1	2669.3
52.5°	13080.5	5755.8	2423.5	2946.5	3786.7	3886.7	3278.0	2852.2	2466.3	2509.2	2552.1
55°	13560.6	5652.9	2343.5	2835.0	3718.1	3658.1	3263.7	2935.0	2494.9	2394.9	2412.0
57.5°	14195.1	5818.6	2266.3	2695.0	3560.9	3420.9	3258.0	2957.9	2429.2	2346.3	2329.2
60°	14932.4	6147.3	2243.4	2552.1	3346.6	3218.0	3223.7	2892.2	2337.7	2252.0	2266.3
62.5°	15449.7	6344.5	2229.1	2443.5	3112.2	2995.1	3140.8	2812.2	2297.7	2223.4	2237.7
65°	15449.7	6104.4	2097.7	2277.7	2809.3	2726.4	3040.8	2712.1	2246.3	2160.6	2146.3
67.5°	14863.8	5404.2	1897.6	2029.1	2474.9	2420.6	2900.7	2592.1	2169.1	2103.4	2069.1
70°	13337.7	4098.2	1646.1	1737.6	2052.0	2100.5	2720.7	2429.2	2040.5	1960.5	1909.1
71°	12666.1	3569.5	1540.4	1589.0	1889.1	1960.5	2635.0	2360.6	1983.4	1869.1	1777.6
72.5°	11371.5	3006.5	1380.4	1400.4	1614.7	1743.3	2454.9	2229.1	1874.8	1711.9	1609.0
75°	8639.4	2194.9	1111.7	1100.3	1194.6	1383.2	2077.7	1986.2	1643.3	1423.2	1363.2
77.5°	3732.4	1194.6	831.6	840.2	811.6	1048.8	1634.7	1706.2	1408.9	1157.4	1103.1
80°	1131.7	688.7	568.7	580.1	543.0	703.0	1151.7	1337.5	1131.7	900.2	825.9
82.5°	580.1	411.5	388.7	383.0	345.8	397.2	697.3	914.5	808.8	563.0	497.3
85°	251.5	220.1	191.5	185.8	162.9	142.9	248.6	457.3	428.7	314.4	300.1
87.5°	62.9	57.2	37.2	34.3	20.0	2.9	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)