

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: P456066

Luminaire Tested: **GALN-SA7B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39859 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

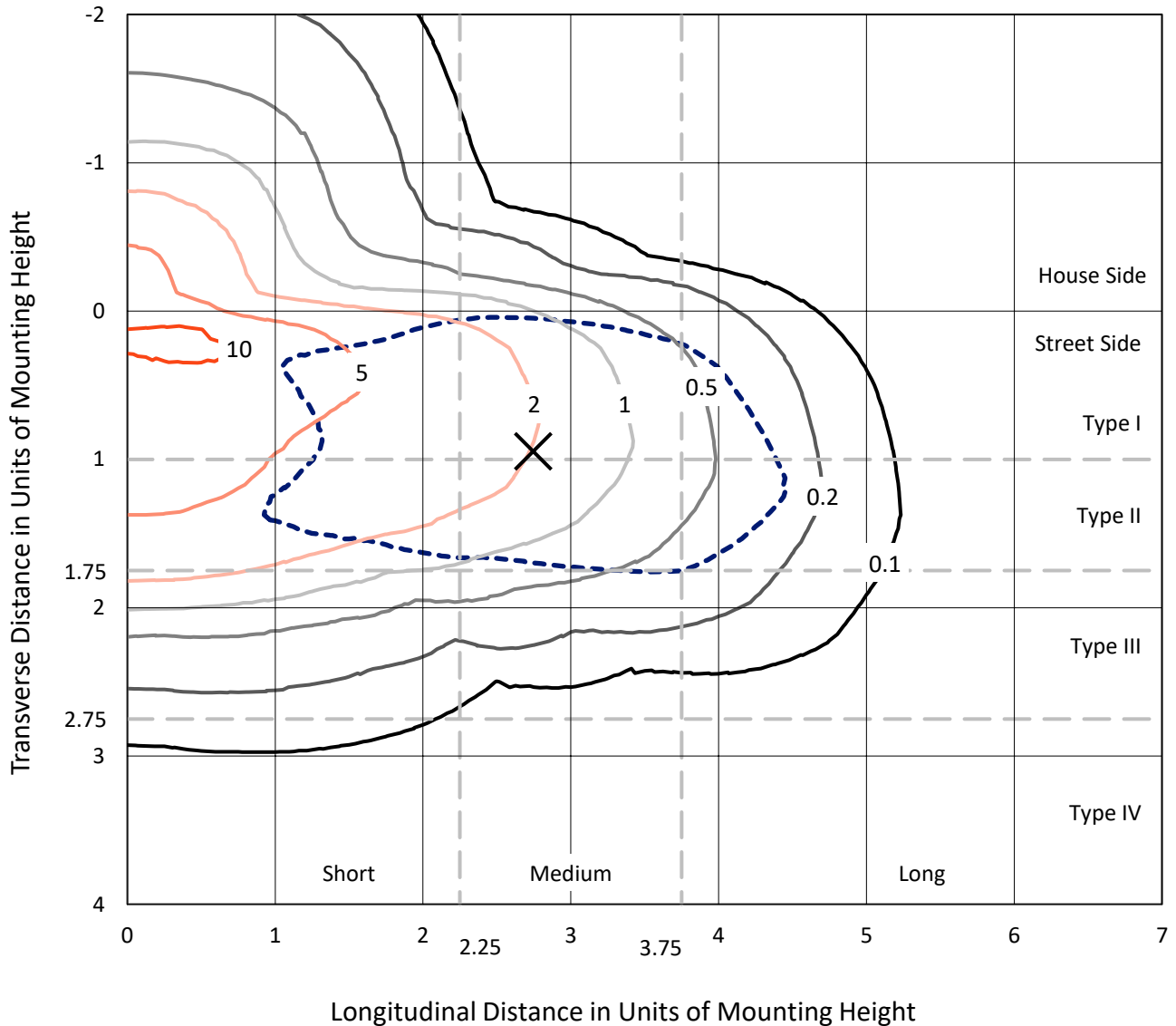
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

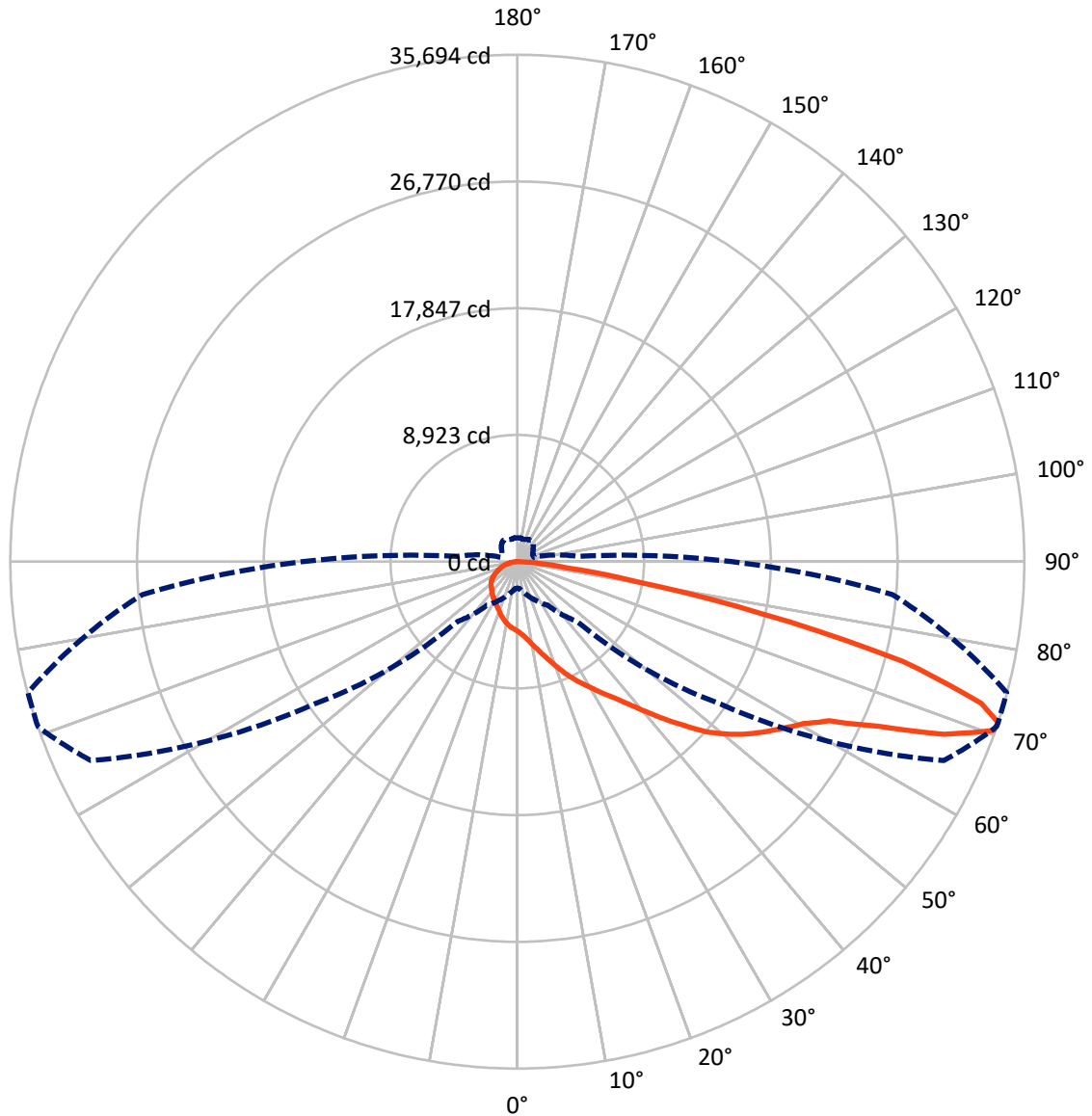
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7168.5	0.0	7168.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	32690.5	0.0	32690.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	39859.0	0.0	39859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.2
10°-20°	1595.8	4.0
20°-30°	2788.8	7.0
30°-40°	4148.0	10.4
40°-50°	6111.5	15.3
50°-60°	8556.2	21.5
60°-70°	9569.9	24.0
70°-80°	5845.6	14.7
80°-90°	752.0	1.9
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°	39859.0	100.0
0°-180°	39859.0	100.0

Coefficient of Utilization



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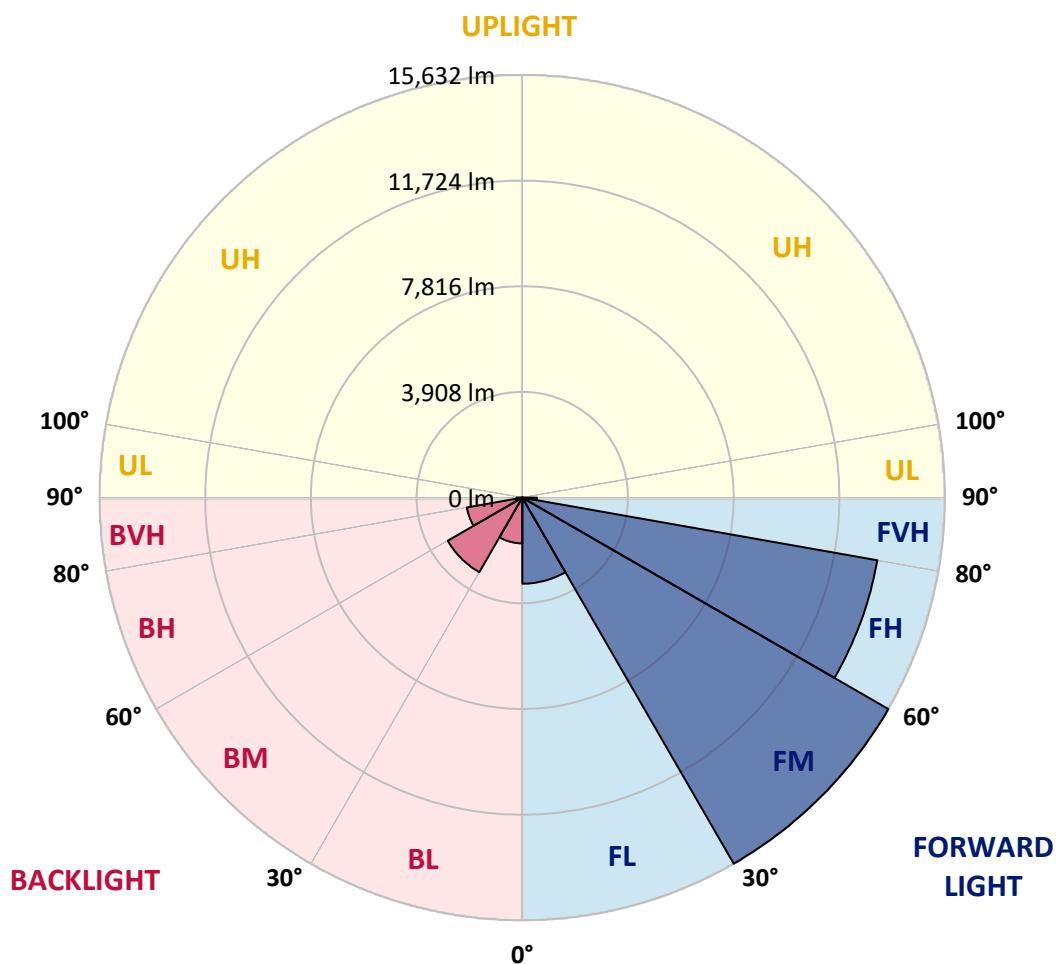
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.8	8.0			
FM	(30°-60°)	15631.9	39.2			
FH	(60°-80°)	13332.7	33.4			G5
FVH	(80°-90°)	541.1	1.4			G4/750
BL	(0°-30°)	1691.0	4.2	B3/2500		
BM	(30°-60°)	3183.8	8.0	B3/5000		
BH	(60°-80°)	2082.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	210.9	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9
2.5°	5430.8	5404.5	5406.7	5369.5	5321.3	5268.7	5194.2	5128.5	5075.9	5045.3	4955.4
5°	6017.9	5991.7	5958.8	5877.7	5842.7	5713.4	5549.1	5400.2	5286.2	5222.7	5043.1
7.5°	6493.3	6486.8	6478.0	6432.0	6342.2	6162.5	6022.3	5763.8	5595.1	5474.6	5167.9
10°	6786.9	6797.8	6804.4	6813.2	6775.9	6681.7	6489.0	6162.5	5947.8	5794.5	5330.1
12.5°	6935.9	6946.8	6984.1	7065.1	7115.5	7104.5	6946.8	6627.0	6331.2	6129.7	5503.1
15°	7027.9	7045.4	7111.1	7218.5	7387.2	7494.5	7417.8	7122.1	6797.8	6559.1	5709.0
17.5°	7128.6	7148.4	7220.7	7374.0	7595.3	7827.5	7910.7	7656.6	7303.9	7019.1	5939.1
20°	7185.6	7211.9	7314.9	7516.4	7774.9	8112.3	8388.3	8254.7	7869.1	7553.6	6204.2
22.5°	7277.6	7299.5	7387.2	7601.8	7910.7	8333.5	8865.9	8837.4	8497.9	8090.4	6495.5
25°	7527.4	7562.4	7606.2	7735.5	8033.4	8559.2	9262.4	9459.6	9106.9	8651.2	6762.8
27.5°	7998.4	8026.8	8024.7	8042.2	8210.9	8754.2	9606.4	10075.2	9711.5	9218.6	7021.3
30°	8535.1	8546.0	8554.8	8515.4	8552.6	8953.5	9921.8	10684.2	10320.5	9801.3	7246.9
32.5°	9187.9	9209.8	9135.4	9034.6	9003.9	9249.3	10182.5	11293.2	11041.3	10392.8	7470.4
35°	9959.1	10016.0	9864.9	9687.4	9562.5	9674.3	10533.0	11915.4	11779.6	11148.6	7766.1
37.5°	10839.7	10909.8	10769.6	10421.3	10243.9	10274.5	10990.9	12684.3	12712.8	12009.6	8206.5
40°	11560.5	11652.5	11656.9	11164.0	10894.5	10929.6	11571.4	13512.4	13838.9	13074.3	8725.7
42.5°	12035.9	12125.7	12219.9	11930.7	11648.1	11847.5	12248.4	14410.6	15105.1	14366.8	9450.8
45°	12557.3	12638.3	12690.9	12559.5	12401.7	12918.8	13065.5	15365.8	16454.6	15810.5	10243.9
47.5°	13161.9	13251.7	13302.1	13177.3	13118.1	13858.6	13946.2	16257.4	17896.1	17212.6	11120.2
50°	13968.1	14036.0	14009.7	13930.9	13917.7	14579.3	14791.8	17092.1	19085.7	18722.0	12029.3
52.5°	14971.5	15052.5	15081.0	14969.3	14918.9	15094.1	15473.1	17852.3	20167.9	20018.9	12999.8
55°	15578.3	15707.6	16141.3	16316.6	16437.1	15760.1	16207.0	18691.3	21138.4	21385.9	14042.6
57.5°	14800.6	14967.1	15937.6	16813.9	17946.5	17425.1	17247.6	19567.6	22108.9	22711.3	15291.3
60°	12903.4	12940.7	14191.6	15806.1	18084.5	19565.4	19418.7	20960.9	23160.4	24047.7	16936.6
62.5°	8951.3	9030.2	10508.9	13085.2	16380.1	20336.6	23112.2	23366.4	24667.6	26047.8	19348.6
65°	4615.9	4512.9	5860.2	8224.0	12349.2	18505.1	26104.8	27789.4	27936.2	29176.2	22744.2
67.5°	2841.4	2887.4	3518.3	4802.1	7301.7	13448.9	25791.5	33194.0	32420.7	33016.5	25896.7
70°	2133.8	2190.7	2624.5	3286.1	4451.6	7689.5	20741.9	34504.0	35584.1	35430.7	26856.2
71°	1855.6	1914.7	2366.0	2990.4	3739.6	5934.7	17475.5	33132.6	35693.6	35667.3	26494.7
72.5°	1581.7	1619.0	1971.7	2532.5	3152.5	4160.2	13129.1	29715.1	34171.0	35045.2	25204.4
75°	1242.1	1270.6	1428.4	1932.2	2482.1	2554.4	7045.4	22277.6	28065.5	29730.4	20982.8
77.5°	1012.1	1031.8	1112.9	1434.9	1914.7	1809.5	3695.8	14500.5	17582.8	19258.7	12360.1
80°	804.0	825.9	874.1	972.7	1434.9	1290.3	1763.5	7347.7	8493.5	8475.9	4933.5
82.5°	624.4	630.9	687.9	714.2	981.4	915.7	955.2	3110.8	3446.0	3559.9	1781.1
85°	394.3	414.0	609.0	547.7	587.1	536.7	471.0	1235.6	1522.6	1500.7	712.0
87.5°	120.5	127.1	205.9	232.2	260.7	234.4	173.1	363.7	444.7	482.0	177.4
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°	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9	4891.9
2.5°	4920.4	4896.3	4810.8	4740.7	4675.0	4602.7	4541.4	4523.9	4508.5	4502.0	4499.8
5°	4966.4	4894.1	4725.4	4587.4	4477.9	4377.1	4313.6	4285.1	4256.6	4256.6	4265.4
7.5°	5032.1	4900.7	4640.0	4434.0	4296.0	4201.8	4155.8	4151.4	4158.0	4164.6	4166.8
10°	5104.4	4896.3	4515.1	4258.8	4136.1	4092.3	4094.5	4131.7	4166.8	4193.1	4197.4
12.5°	5174.5	4870.0	4368.3	4094.5	4015.6	4024.4	4085.7	4169.0	4236.9	4274.1	4276.3
15°	5253.4	4828.4	4190.9	3938.9	3912.6	3980.6	4094.5	4221.5	4324.5	4385.8	4392.4
17.5°	5319.1	4758.3	4004.7	3787.8	3820.6	3945.5	4103.2	4267.5	4392.4	4469.1	4482.2
20°	5393.6	4668.5	3811.9	3643.2	3737.4	3906.1	4085.7	4263.2	4392.4	4466.9	4484.4
22.5°	5452.7	4541.4	3627.9	3524.9	3662.9	3857.9	4026.6	4169.0	4274.1	4313.6	4339.8
25°	5476.8	4381.5	3454.8	3428.5	3603.8	3779.0	3892.9	3974.0	4006.9	4002.5	4013.4
27.5°	5463.7	4197.4	3305.8	3351.8	3529.3	3656.3	3713.3	3706.7	3647.6	3592.8	3619.1
30°	5408.9	3978.4	3180.9	3273.0	3432.9	3503.0	3494.2	3408.8	3297.1	3194.1	3200.7
32.5°	5310.3	3741.8	3064.8	3183.1	3297.1	3327.7	3268.6	3156.8	2996.9	2863.3	2843.6
35°	5227.1	3516.1	2961.9	3080.2	3161.2	3145.9	3088.9	2944.3	2799.8	2681.5	2661.7
37.5°	5213.9	3323.3	2863.3	2964.1	3010.1	2988.2	2918.1	2795.4	2742.8	2653.0	2642.0
40°	5284.0	3187.5	2762.5	2841.4	2863.3	2845.8	2769.1	2699.0	2747.2	2725.3	2725.3
42.5°	5474.6	3115.2	2672.7	2718.7	2736.2	2749.4	2694.6	2635.5	2694.6	2593.8	2561.0
45°	5777.0	3117.4	2591.6	2598.2	2650.8	2696.8	2659.5	2571.9	2541.2	2339.7	2300.3
47.5°	6221.7	3191.9	2525.9	2484.3	2578.5	2655.2	2602.6	2475.5	2339.7	2206.1	2182.0
50°	6740.9	3325.5	2466.8	2366.0	2482.1	2602.6	2563.2	2414.2	2274.0	2192.9	2177.6
52.5°	7317.0	3494.2	2394.5	2234.5	2363.8	2578.5	2571.9	2405.4	2212.6	2157.9	2144.7
55°	8029.0	3660.7	2304.7	2081.2	2258.6	2558.8	2547.8	2333.1	2199.5	2160.1	2155.7
57.5°	8857.1	3901.7	2175.4	1925.7	2138.2	2477.7	2453.6	2289.3	2155.7	2127.2	2125.0
60°	10191.3	4276.3	1991.4	1783.3	2015.5	2335.3	2366.0	2214.8	2085.6	2079.0	2076.8
62.5°	11946.1	4802.1	1800.8	1636.5	1873.1	2151.3	2238.9	2114.1	2011.1	2044.0	2048.3
65°	14369.0	5244.6	1603.6	1511.6	1715.3	1973.9	2118.4	2019.9	1927.8	1991.4	1991.4
67.5°	15948.5	5253.4	1424.0	1382.4	1555.4	1824.9	1991.4	1908.1	1820.5	1927.8	1932.2
70°	15619.9	4602.7	1275.0	1246.5	1399.9	1665.0	1851.2	1785.4	1684.7	1781.1	1746.0
71°	15089.8	4241.3	1215.9	1193.9	1338.5	1588.3	1785.4	1730.7	1629.9	1693.4	1673.7
72.5°	14244.1	3682.6	1119.5	1123.8	1246.5	1491.9	1693.4	1636.5	1535.7	1570.8	1564.2
75°	12040.3	3216.0	957.4	977.1	1071.3	1327.6	1509.4	1465.6	1362.6	1362.6	1356.1
77.5°	7527.4	2247.7	795.2	806.2	909.2	1137.0	1296.9	1259.7	1161.1	1128.2	1119.5
80°	2808.5	1161.1	622.2	635.3	698.8	896.0	1073.5	1038.4	937.6	900.4	865.3
82.5°	1062.5	582.7	457.9	446.9	514.8	683.5	841.2	799.6	720.8	630.9	604.6
85°	400.9	289.2	280.4	271.7	302.3	405.3	521.4	512.6	429.4	365.9	359.3
87.5°	105.2	94.2	109.5	81.1	85.4	76.7	78.9	32.9	15.3	6.6	4.4
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)