

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: P529591

Luminaire Tested: **GALN-SA4D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16440 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

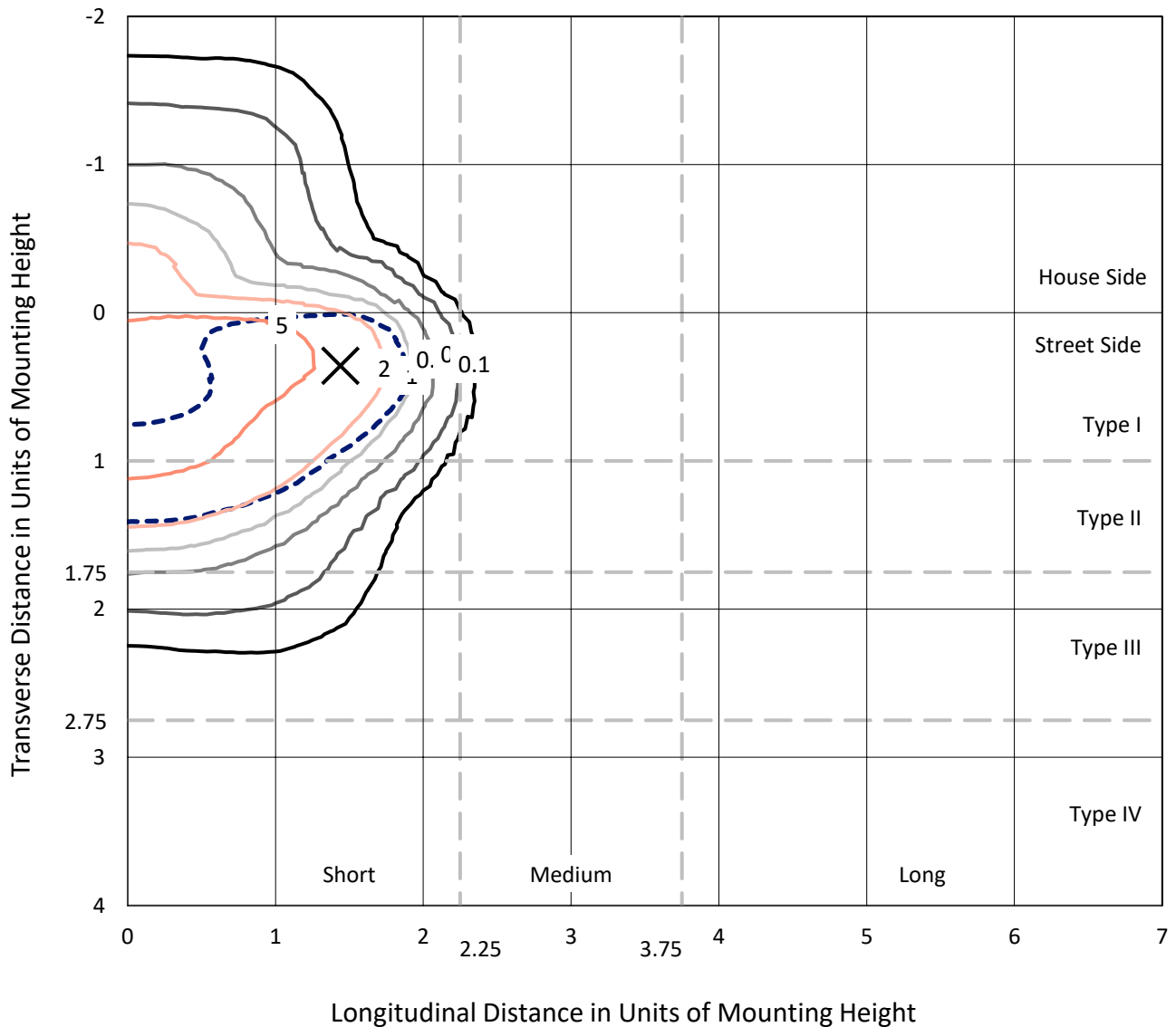
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

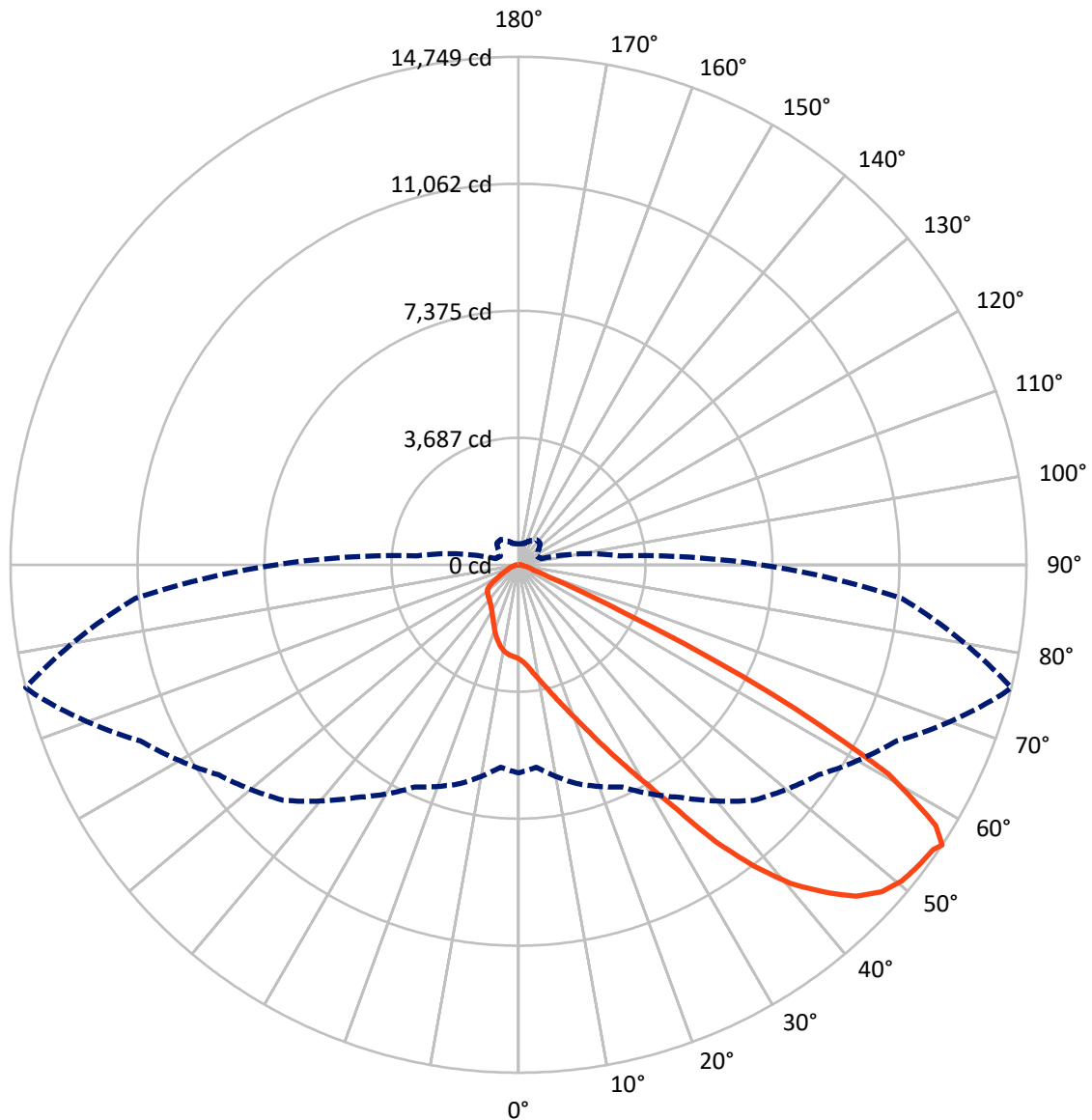
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.6	0.0	2582.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13857.4	0.0	13857.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	16440.0	0.0	16440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.7
10°-20°	885.6	5.4
20°-30°	1605.8	9.8
30°-40°	2769.3	16.8
40°-50°	4498.8	27.4
50°-60°	4741.9	28.8
60°-70°	1448.9	8.8
70°-80°	185.7	1.1
80°-90°	28.2	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°	16440.0	100.0
0°-180°	16440.0	100.0

Coefficient of Utilization



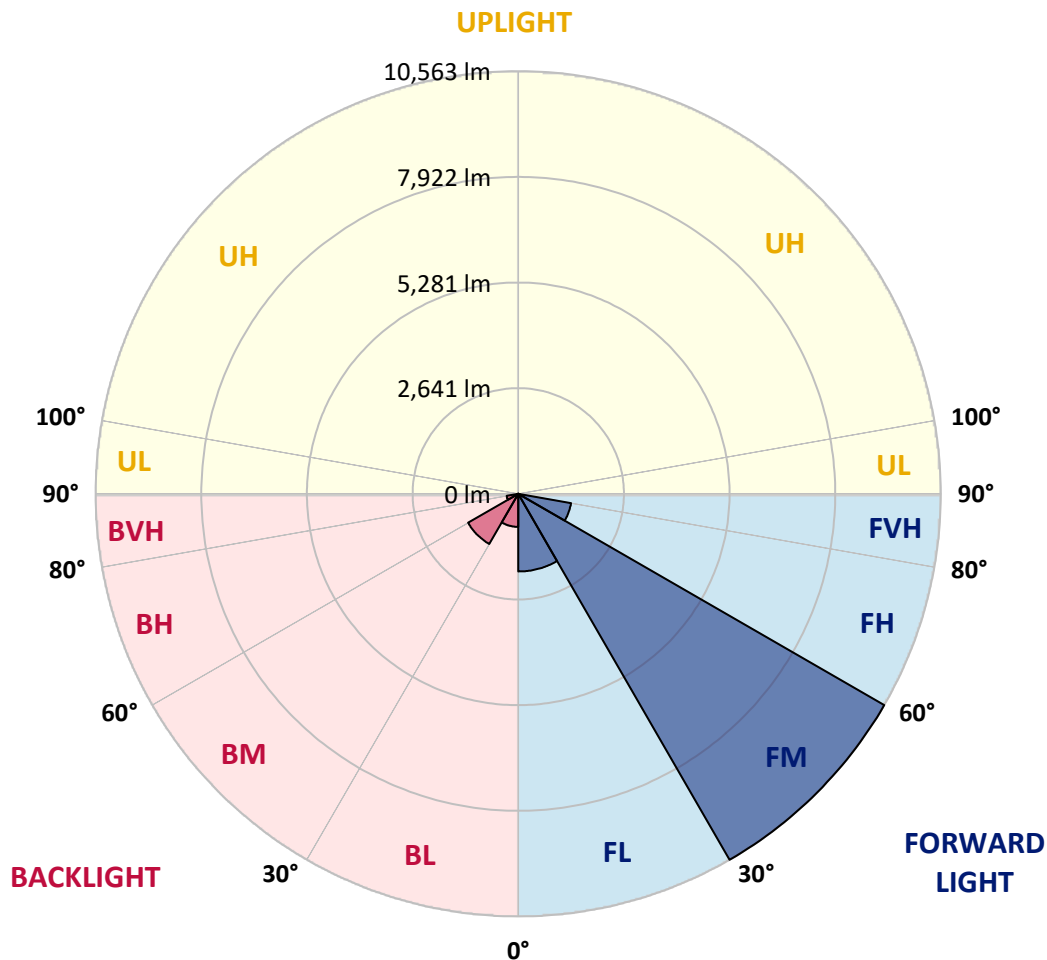
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.9	11.8			
FM (30°-60°)	10562.7	64.2			
FH (60°-80°)	1340.0	8.2			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	826.2	5.0	B2/1000		
BM (30°-60°)	1447.4	8.8	B2/2500		
BH (60°-80°)	294.6	1.8	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5
2.5°	3151.6	3078.9	3081.9	3075.9	3066.8	3033.4	2933.4	2918.3	2851.6	2833.4	2772.8
5°	3530.4	3466.8	3503.2	3448.6	3397.1	3366.8	3203.1	3127.4	3021.3	2981.9	2897.1
7.5°	3766.8	3736.5	3724.4	3727.4	3678.9	3603.2	3530.4	3363.8	3221.3	3191.0	3012.2
10°	3882.0	3863.8	3882.0	3872.9	3894.1	3903.2	3775.9	3675.9	3466.8	3415.3	3136.5
12.5°	3909.2	3945.6	3960.7	4000.1	4051.7	4139.5	4130.5	3994.1	3715.3	3682.0	3327.4
15°	3975.9	4006.2	3991.1	4054.7	4151.7	4300.2	4378.9	4357.7	4057.7	3997.1	3548.6
17.5°	4036.5	3982.0	4033.5	4160.8	4257.7	4485.0	4675.9	4763.8	4430.5	4360.8	3751.7
20°	4118.3	4103.2	4094.1	4157.7	4330.5	4633.5	5012.3	5172.9	4848.7	4775.9	4042.6
22.5°	4366.8	4369.9	4363.8	4269.9	4394.1	4736.5	5306.3	5703.2	5348.7	5288.1	4372.9
25°	4694.1	4654.7	4624.4	4548.6	4533.5	4830.5	5603.2	6351.7	5948.7	5906.3	4730.5
27.5°	5039.6	5039.6	4948.7	4879.0	4782.0	5063.8	5876.0	6982.1	6673.0	6615.4	5042.6
30°	5415.3	5436.6	5424.4	5275.9	5215.3	5318.4	6154.8	7788.2	7503.3	7430.6	5557.8
32.5°	5969.9	5924.5	5976.0	5851.7	5672.9	5763.8	6594.2	8509.4	8582.1	8479.1	6233.6
35°	6703.3	6676.0	6642.7	6439.6	6227.5	6300.2	7215.4	9397.3	9936.7	9885.2	6915.4
37.5°	7360.9	7345.7	7318.4	7179.0	6933.6	7021.5	7921.5	10321.6	11258.0	11088.3	7879.1
40°	8051.8	8133.6	8045.7	7921.5	7697.2	7891.2	8751.8	10870.1	12370.1	12164.1	8615.5
42.5°	8988.2	8924.6	8964.0	8736.7	8615.5	8827.6	9585.2	11418.6	13233.8	12988.3	9397.3
45°	9985.2	9988.2	9882.2	9809.4	9494.3	9724.6	10097.3	11721.6	13921.7	13730.8	9988.2
47.5°	10624.6	10621.6	10736.8	10851.9	10527.7	10300.4	10445.8	12009.5	14276.3	14188.4	10203.4
50°	10524.6	10554.9	10703.4	11133.7	11303.4	10997.4	10773.1	11924.7	14436.9	14427.8	10388.3
52.5°	9154.9	9254.9	9503.4	10124.6	10979.2	11358.0	11115.6	12082.3	14515.7	14530.8	10664.0
55°	6969.9	7024.5	7497.2	8251.8	9197.3	10494.3	10979.2	12206.5	14576.3	14603.6	10997.4
56°	6045.7	5900.2	6582.1	7118.4	8248.8	9667.0	10633.7	12109.5	14539.9	14749.0	11164.0
57.5°	4563.8	4466.8	5018.4	5688.1	6776.0	8273.0	9561.0	11651.9	14294.5	14291.4	10924.6
60°	2775.9	2678.9	3103.1	3497.1	4106.2	5094.1	6460.8	9279.1	12085.3	12339.8	8845.8
62.5°	1651.6	1712.2	2130.4	2369.8	2566.8	2669.8	3342.5	5515.4	8063.9	8245.8	5488.1
65°	1100.0	1121.3	1436.4	1830.4	1918.3	1527.3	1360.7	2233.4	3497.1	3385.0	2263.7
67.5°	678.8	727.3	963.7	1375.8	1524.3	1115.2	645.5	833.4	963.7	963.7	654.6
70°	412.1	436.4	642.4	936.4	1045.5	718.2	469.7	469.7	463.7	454.6	390.9
72.5°	197.0	212.1	327.3	481.8	490.9	378.8	363.6	397.0	387.9	384.9	324.3
75°	84.9	90.9	115.2	151.5	172.7	160.6	221.2	284.9	294.0	284.9	233.3
77.5°	27.3	30.3	42.4	54.5	57.6	69.7	93.9	118.2	136.4	127.3	115.2
80°	3.0	6.1	12.1	27.3	42.4	54.5	69.7	78.8	87.9	87.9	81.8
82.5°	3.0	3.0	12.1	24.2	39.4	51.5	66.7	75.8	87.9	90.9	84.9
85°	0.0	3.0	9.1	21.2	33.3	33.3	30.3	30.3	21.2	21.2	21.2
87.5°	0.0	0.0	3.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5
2.5°	2760.7	2754.6	2672.8	2621.3	2594.0	2539.5	2506.2	2481.9	2463.7	2442.5	2445.5
5°	2797.1	2775.9	2639.5	2545.5	2433.4	2372.8	2321.3	2278.9	2251.6	2245.5	2233.4
7.5°	2900.1	2788.0	2581.9	2412.2	2269.8	2209.2	2163.7	2136.4	2148.6	2121.3	2142.5
10°	2978.9	2812.2	2512.2	2266.7	2124.3	2078.9	2054.6	2075.8	2106.1	2094.0	2078.9
12.5°	3075.9	2836.5	2400.1	2127.3	1994.0	1960.7	2003.1	2042.5	2103.1	2127.3	2097.0
15°	3185.0	2863.7	2257.7	1966.7	1881.9	1909.2	1981.9	2051.6	2112.2	2142.5	2160.7
17.5°	3318.3	2854.6	2118.3	1839.5	1775.8	1854.6	1942.5	2006.1	2097.0	2142.5	2130.4
20°	3442.5	2824.3	1963.7	1712.2	1715.2	1787.9	1860.7	1963.7	2012.2	2072.8	2051.6
22.5°	3560.7	2769.8	1803.1	1624.3	1624.3	1736.4	1772.8	1839.5	1881.9	1912.2	1909.2
25°	3727.4	2666.8	1669.8	1539.4	1575.8	1648.5	1678.8	1700.1	1681.9	1706.1	1709.2
27.5°	3845.6	2560.7	1560.7	1463.7	1530.4	1584.9	1575.8	1563.7	1521.3	1487.9	1509.1
30°	3972.9	2436.5	1466.7	1412.2	1448.5	1497.0	1460.7	1424.3	1357.6	1303.1	1306.1
32.5°	4154.7	2378.9	1384.9	1351.6	1400.1	1406.1	1366.7	1312.2	1245.5	1194.0	1191.0
35°	4494.1	2342.5	1315.2	1312.2	1321.3	1324.3	1284.9	1218.2	1191.0	1148.5	1163.7
37.5°	4833.5	2324.3	1266.7	1254.6	1251.6	1254.6	1209.1	1145.5	1197.0	1194.0	1200.0
40°	5266.9	2406.1	1197.0	1181.9	1184.9	1184.9	1127.3	1109.1	1200.0	1209.1	1212.2
42.5°	5706.3	2509.2	1151.6	1103.1	1115.2	1115.2	1084.9	1063.7	1127.3	1066.7	1057.6
45°	6088.1	2660.7	1103.1	1024.3	1054.6	1069.7	1060.6	1024.3	984.9	881.9	881.9
47.5°	6212.3	2794.0	1045.5	948.5	972.8	1039.4	1012.2	936.4	866.7	781.8	775.8
50°	6430.5	2939.5	1000.0	860.6	912.2	994.0	966.7	890.9	812.2	751.5	754.6
52.5°	6654.8	3106.2	915.2	757.6	821.2	957.6	957.6	872.8	751.5	709.1	703.1
55°	6991.2	3100.1	763.7	621.2	733.4	903.1	918.2	781.8	672.8	639.4	639.4
56°	7039.6	2960.7	687.9	581.8	694.0	887.9	890.9	757.6	642.4	606.1	606.1
57.5°	6676.0	2672.8	603.1	533.4	645.5	860.6	863.7	736.4	618.2	566.7	560.6
60°	5136.5	1809.2	503.0	475.8	584.9	775.8	790.9	669.7	542.4	503.0	500.0
62.5°	2900.1	1003.1	442.4	430.3	503.0	660.6	706.1	584.9	460.6	439.4	445.5
65°	1324.3	551.5	372.7	348.5	406.1	509.1	569.7	481.8	378.8	354.6	354.6
67.5°	484.9	375.8	318.2	275.8	284.9	330.3	369.7	312.1	251.5	215.2	224.3
70°	345.5	315.2	278.8	239.4	221.2	215.2	212.1	175.8	124.2	97.0	103.0
72.5°	278.8	260.6	233.3	203.0	172.7	145.5	124.2	90.9	57.6	39.4	36.4
75°	200.0	190.9	169.7	145.5	121.2	103.0	84.9	57.6	30.3	15.2	15.2
77.5°	103.0	103.0	100.0	90.9	75.8	60.6	48.5	33.3	18.2	6.1	6.1
80°	78.8	84.9	87.9	78.8	69.7	54.5	39.4	24.2	12.1	3.0	3.0
82.5°	75.8	87.9	93.9	81.8	69.7	51.5	39.4	24.2	12.1	3.0	3.0
85°	18.2	18.2	27.3	30.3	39.4	42.4	33.3	21.2	9.1	3.0	3.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	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)