

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: P531725

Luminaire Tested: **GALN-SA7A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19624 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

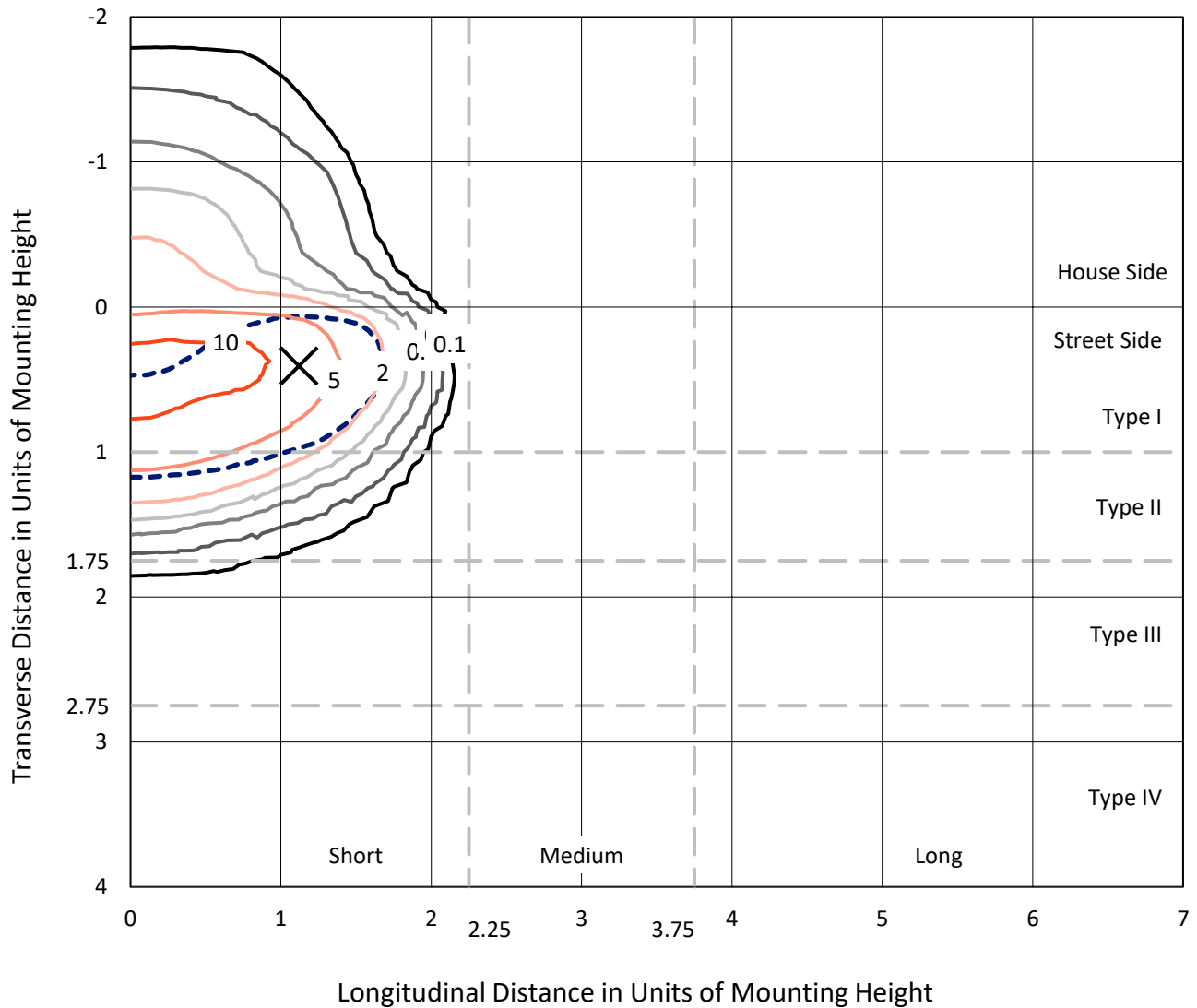
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

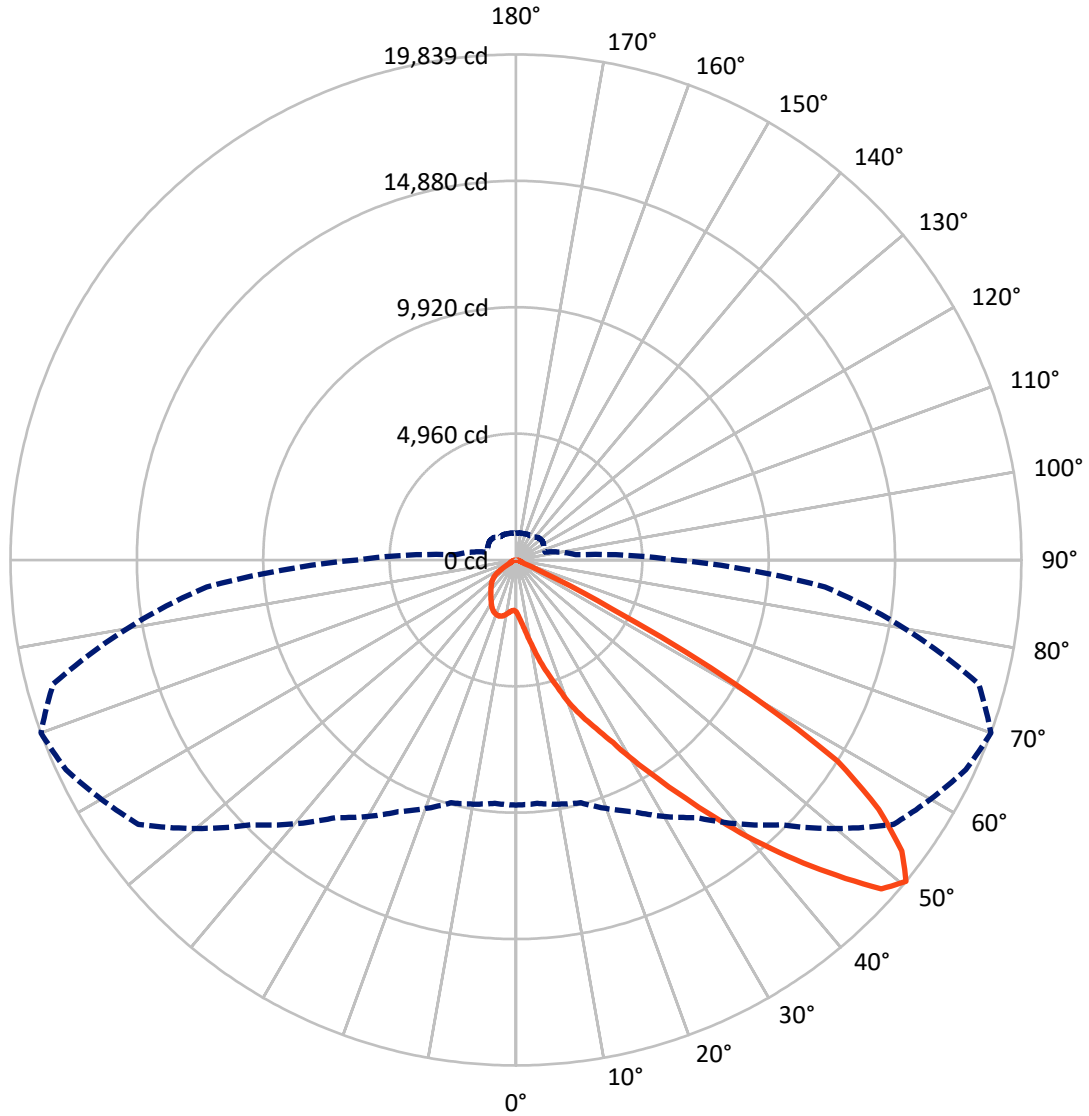
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2740.6	0.0	2740.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16883.4	0.0	16883.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	19624.0	0.0	19624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	1.3
10°-20°	1143.4	5.8
20°-30°	2398.6	12.2
30°-40°	4134.3	21.1
40°-50°	6042.3	30.8
50°-60°	4705.9	24.0
60°-70°	797.3	4.1
70°-80°	109.5	0.6
80°-90°	28.4	0.1
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°	19624.0	100.0
0°-180°	19624.0	100.0

Coefficient of Utilization



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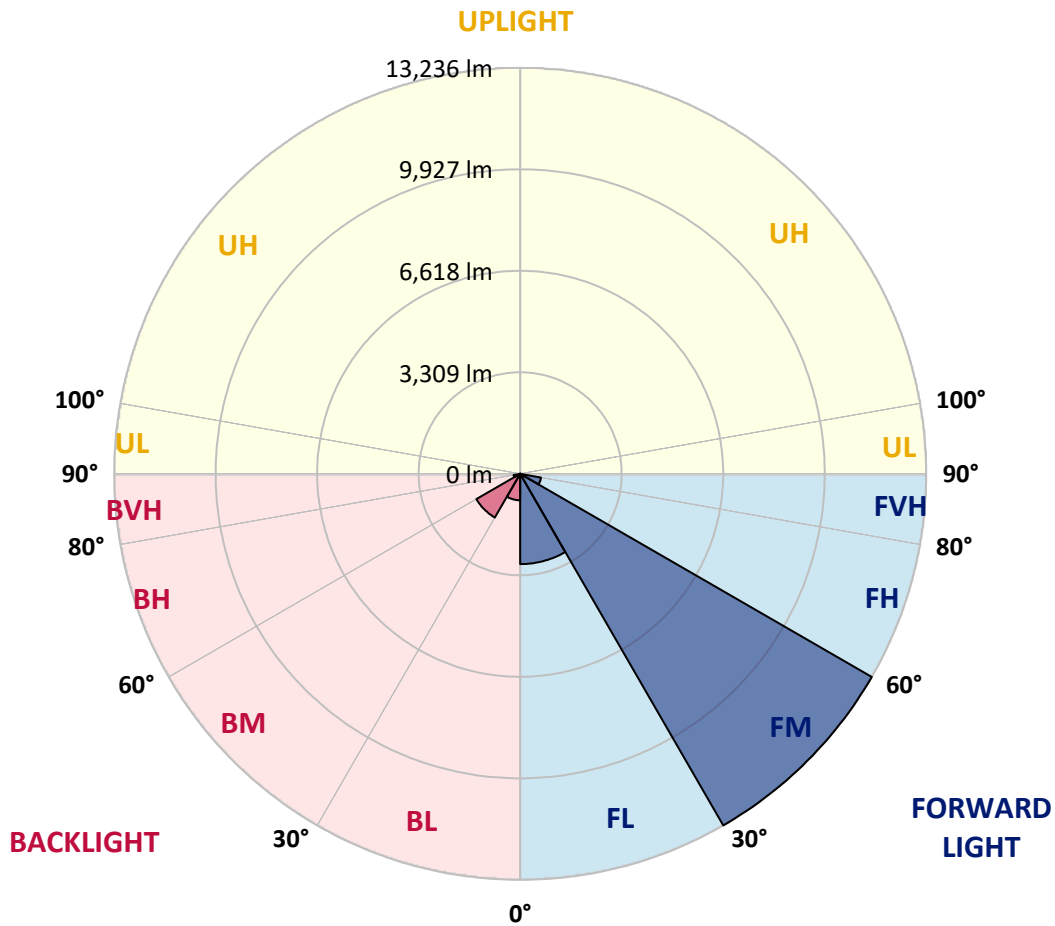
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.8	15.0			
FM (30°-60°)	13236.1	67.4			
FH (60°-80°)	690.4	3.5			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	862.4	4.4	B2/1000		
BM (30°-60°)	1646.5	8.4	B2/2500		
BH (60°-80°)	216.5	1.1	B1/500		G1/500
BVH (80°-90°)	15.3	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2661.8	2642.5	2600.5	2523.1	2490.8	2413.4	2368.2	2281.1	2226.2	2164.9	2097.2
5°	3749.1	3649.1	3587.8	3500.7	3245.8	3087.7	2826.4	2603.7	2500.5	2387.6	2232.7
7.5°	4871.9	4807.4	4723.5	4536.4	4362.2	4033.1	3584.6	3094.2	2884.4	2690.9	2384.3
10°	5801.1	5620.5	5610.8	5472.0	5281.7	4888.1	4349.2	3739.4	3365.2	3081.3	2600.5
12.5°	6449.7	6285.1	6359.3	6343.2	6165.7	5804.4	5181.7	4375.1	3984.7	3542.6	2823.1
15°	7040.1	6972.3	6949.8	6930.4	6859.4	6591.6	6033.5	5149.4	4584.8	4052.4	3074.8
17.5°	7617.6	7443.4	7527.3	7543.4	7537.0	7295.0	6772.3	5885.0	5220.4	4591.2	3339.4
20°	8130.6	8146.8	8033.8	8011.3	7991.9	7982.2	7472.4	6614.2	6001.2	5155.9	3684.6
22.5°	8788.8	8675.9	8775.9	8711.4	8585.6	8508.1	8117.7	7259.5	6678.7	5836.6	4036.3
25°	9566.4	9656.7	9421.2	9395.4	9256.7	8988.9	8637.2	7982.2	7330.5	6469.0	4417.0
27.5°	10524.7	10366.6	10305.3	10163.3	9911.6	9798.7	9385.7	8727.5	8117.7	7133.7	4784.8
30°	11347.4	11305.5	10998.9	10831.2	10611.8	10608.5	10031.0	9737.4	9143.7	8175.8	5291.4
32.5°	12018.5	11834.6	11721.7	11605.5	11428.1	11476.5	10989.3	10834.4	10237.5	9143.7	5888.3
35°	12467.0	12334.7	12266.9	12089.5	12037.9	12254.0	12050.8	11986.2	11495.8	10505.3	6588.4
37.5°	12608.9	12650.9	12638.0	12415.4	12525.1	13109.0	13370.4	13202.6	12944.5	11941.1	7346.6
40°	12734.8	12763.8	12699.3	12960.6	13273.6	13938.2	14883.6	14606.1	14509.3	13396.2	8401.7
42.5°	12805.8	12783.2	12783.2	13234.9	13709.2	15044.9	16345.2	16161.3	16087.1	14944.9	9621.3
45°	12499.2	12279.8	12515.4	13128.4	14083.4	15590.2	17513.1	17768.0	17661.6	16787.2	11047.3
47.5°	11353.9	11489.4	11621.7	12441.2	13628.5	15422.4	18229.4	19097.3	19294.1	18335.9	11983.0
50°	9621.3	9592.2	9866.5	10898.9	12341.1	14699.7	18090.7	19481.3	19839.4	18800.5	12179.8
52.5°	6998.2	7211.1	7507.9	8533.9	10244.0	12828.3	16300.0	18490.8	18968.3	18229.4	12050.8
55°	4075.0	3839.5	4507.3	5375.3	6988.5	9676.1	13780.1	16390.3	17274.4	17190.5	11399.0
57.5°	1632.6	1581.0	1810.0	2439.2	3645.9	5998.0	10021.3	13467.2	14883.6	15745.0	10018.1
60°	716.3	700.1	822.7	993.7	1490.6	2765.1	5481.7	8375.8	9853.6	11002.2	6894.9
62.5°	516.2	509.8	571.1	632.4	787.3	1203.5	2303.7	3374.9	4207.3	5081.6	3087.7
65°	416.2	432.3	474.3	506.6	580.8	667.9	813.1	938.9	1151.8	1193.8	680.8
67.5°	338.8	351.7	390.4	425.9	438.8	361.4	374.3	329.1	329.1	293.6	235.5
70°	248.4	251.7	296.8	338.8	271.0	145.2	254.9	254.9	229.1	219.4	200.0
72.5°	183.9	187.1	222.6	209.7	106.5	90.3	187.1	206.5	187.1	177.5	161.3
75°	135.5	138.7	116.2	48.4	45.2	58.1	109.7	142.0	135.5	132.3	122.6
77.5°	25.8	19.4	16.1	22.6	32.3	48.4	71.0	87.1	90.3	96.8	90.3
80°	3.2	3.2	9.7	19.4	35.5	51.6	74.2	83.9	87.1	90.3	83.9
82.5°	0.0	3.2	9.7	19.4	35.5	48.4	64.5	74.2	80.7	83.9	80.7
85°	0.0	3.2	6.5	16.1	29.0	35.5	32.3	22.6	19.4	22.6	16.1
87.5°	0.0	0.0	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2058.5	2045.6	2000.4	1952.0	1910.1	1929.4	1910.1	1893.9	1900.4	1893.9	1887.5
5°	2171.4	2113.3	2016.5	1974.6	1939.1	1935.9	1926.2	1923.0	1926.2	1926.2	1897.1
7.5°	2277.9	2184.3	2081.1	2035.9	1993.9	1997.2	1974.6	1974.6	1971.4	1955.2	1948.8
10°	2439.2	2313.4	2181.1	2100.4	2048.8	2039.1	2016.5	1993.9	1993.9	1993.9	1961.7
12.5°	2616.6	2458.6	2277.9	2184.3	2123.0	2074.6	2039.1	2032.7	1997.2	1990.7	1974.6
15°	2771.5	2571.5	2342.4	2213.3	2135.9	2071.4	2016.5	1981.0	1964.9	1955.2	1942.3
17.5°	2923.2	2668.3	2377.9	2213.3	2129.5	2055.2	1997.2	1964.9	1926.2	1932.6	1906.8
20°	3126.4	2771.5	2387.6	2171.4	2068.2	1997.2	1919.7	1903.6	1881.0	1861.7	1868.1
22.5°	3323.2	2845.7	2358.5	2119.8	1971.4	1887.5	1848.8	1829.4	1819.7	1803.6	1781.0
25°	3500.7	2926.4	2313.4	2026.2	1868.1	1806.8	1771.3	1768.1	1745.5	1745.5	1703.6
27.5°	3681.4	2955.4	2235.9	1916.5	1777.8	1742.3	1726.1	1719.7	1710.0	1687.4	1658.4
30°	3887.9	2965.1	2123.0	1803.6	1697.1	1658.4	1681.0	1697.1	1655.2	1613.2	1626.1
32.5°	4058.9	2942.5	1987.5	1697.1	1639.0	1619.7	1664.8	1681.0	1632.6	1587.4	1564.8
35°	4265.4	2887.7	1855.2	1613.2	1581.0	1619.7	1658.4	1658.4	1561.6	1506.7	1493.8
37.5°	4578.3	2826.4	1732.6	1542.2	1519.7	1600.3	1651.9	1616.4	1464.8	1397.1	1380.9
40°	4913.9	2787.6	1613.2	1471.3	1487.4	1568.1	1597.1	1487.4	1332.5	1290.6	1277.7
42.5°	5401.1	2710.2	1506.7	1410.0	1458.4	1522.9	1522.9	1326.1	1268.0	1245.4	1242.2
45°	6007.6	2655.4	1413.2	1358.3	1416.4	1432.5	1380.9	1242.2	1200.2	1193.8	1197.0
47.5°	6304.5	2548.9	1316.4	1297.0	1339.0	1342.2	1206.7	1174.4	1138.9	1129.3	1122.8
50°	6259.3	2358.5	1190.6	1216.4	1274.4	1242.2	1100.2	1106.7	1074.4	1071.2	1055.0
52.5°	5943.1	2058.5	1064.7	1126.0	1190.6	1097.0	1013.1	1006.7	1006.7	964.7	948.6
55°	5268.8	1658.4	913.1	990.5	1068.0	922.8	900.2	893.7	877.6	838.9	829.2
57.5°	4171.8	1216.4	687.2	771.1	906.6	784.0	780.8	751.8	709.8	680.8	680.8
60°	2481.1	700.1	432.3	471.1	600.1	635.6	706.6	693.7	622.7	577.5	564.6
62.5°	1132.5	361.4	274.2	280.7	322.6	413.0	554.9	642.1	542.0	464.6	458.2
65°	380.7	267.8	225.9	216.2	222.6	248.4	332.3	454.9	432.3	358.1	345.2
67.5°	232.3	238.8	212.9	196.8	196.8	193.6	190.4	206.5	254.9	248.4	251.7
70°	200.0	219.4	196.8	177.5	171.0	161.3	135.5	112.9	96.8	112.9	119.4
72.5°	161.3	174.2	167.8	151.6	135.5	122.6	96.8	74.2	54.8	48.4	48.4
75°	119.4	129.1	135.5	116.2	103.2	87.1	71.0	48.4	29.0	19.4	19.4
77.5°	87.1	96.8	100.0	90.3	77.4	61.3	45.2	32.3	16.1	6.5	6.5
80°	74.2	87.1	96.8	90.3	80.7	58.1	41.9	22.6	12.9	3.2	3.2
82.5°	71.0	87.1	96.8	87.1	77.4	54.8	41.9	25.8	9.7	3.2	3.2
85°	16.1	22.6	29.0	35.5	41.9	41.9	32.3	19.4	9.7	3.2	3.2
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	3.2	3.2	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)