

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: P648087

Luminaire Tested: **GALN-SA8A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21570.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

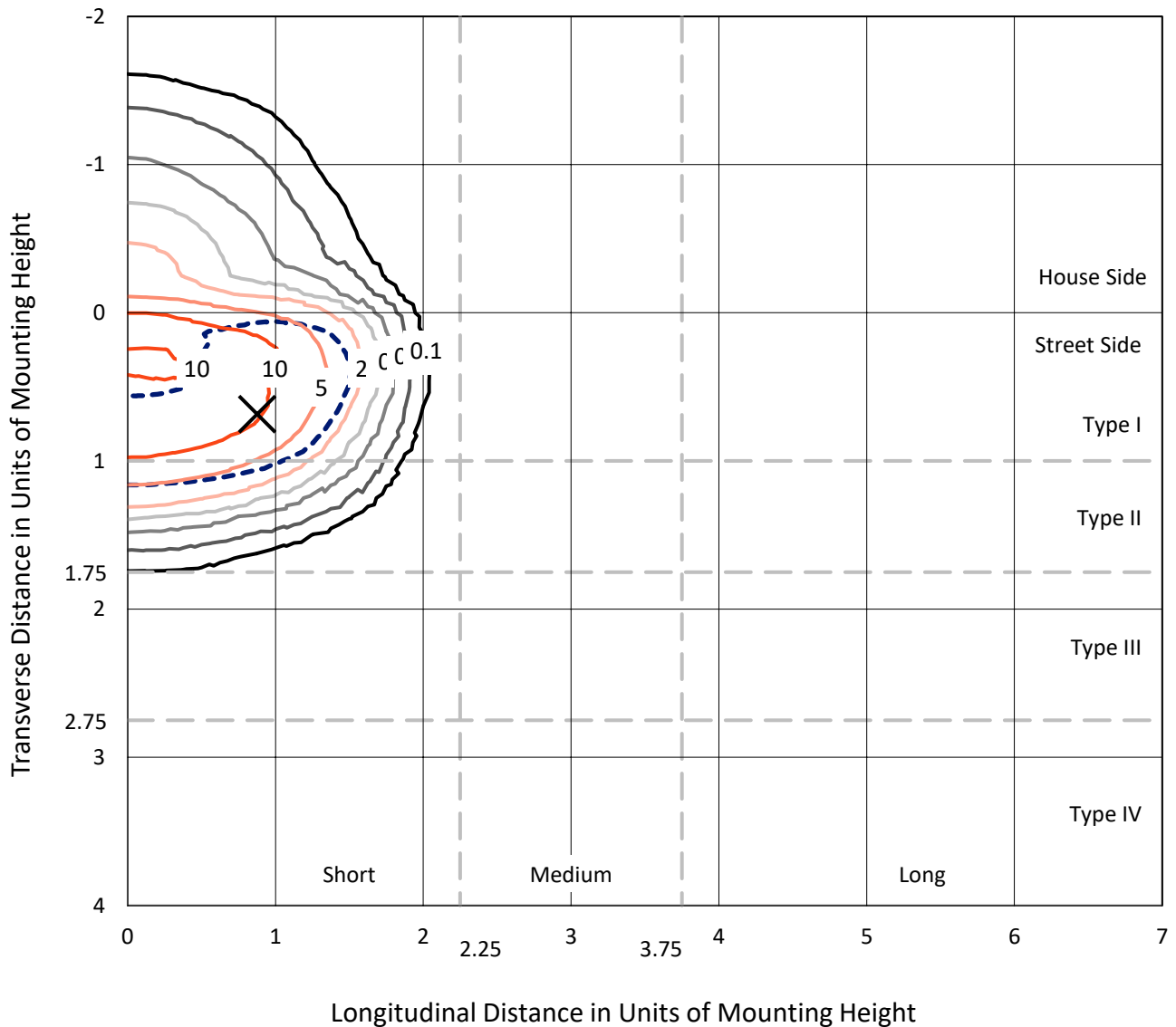
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

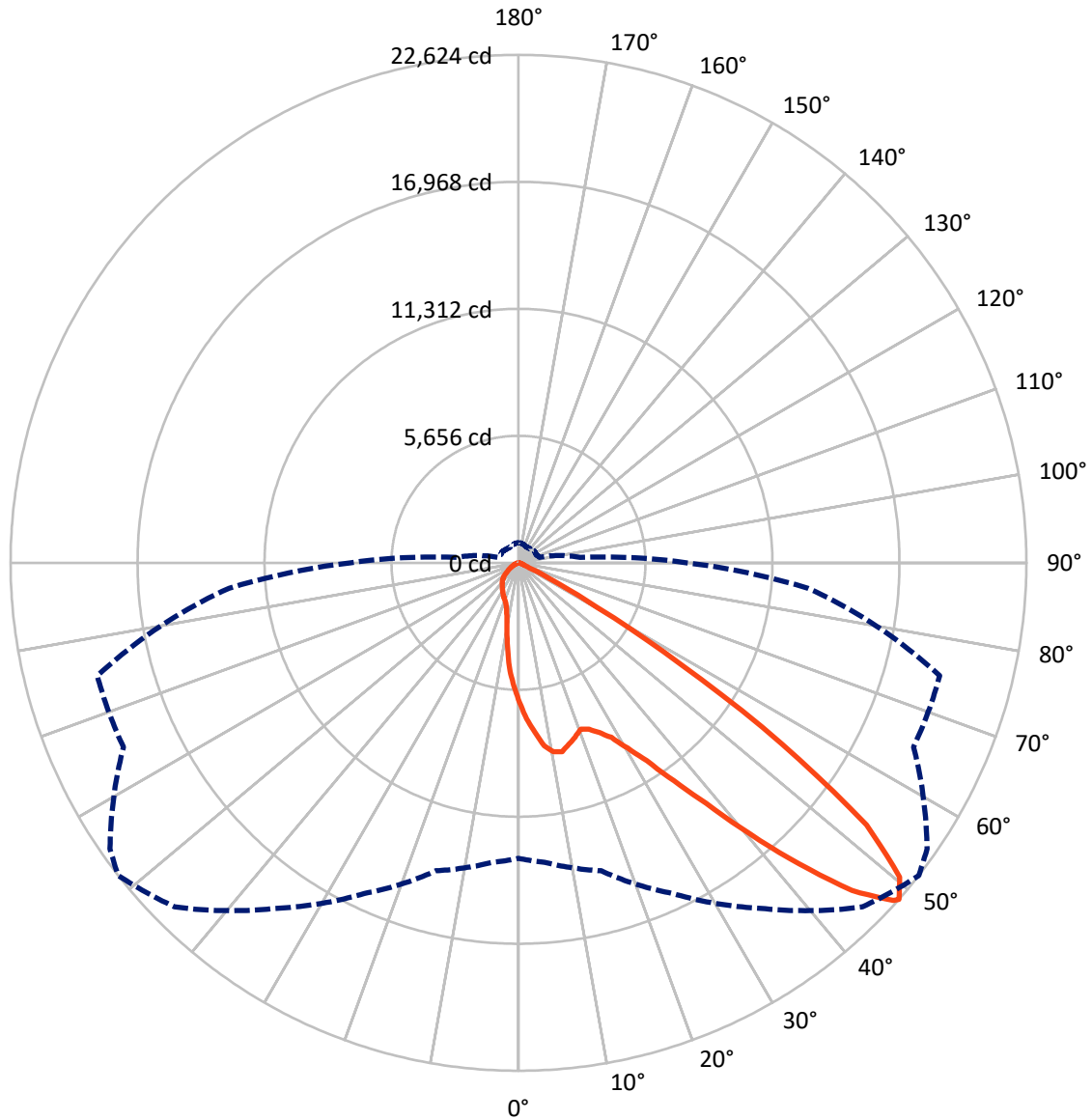
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.3	0.0	2626.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18943.7	0.0	18943.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	21570.1	0.0	21570.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.1	2.6
10°-20°	1490.0	6.9
20°-30°	2544.0	11.8
30°-40°	4684.8	21.7
40°-50°	7275.5	33.7
50°-60°	4378.6	20.3
60°-70°	506.4	2.3
70°-80°	98.0	0.5
80°-90°	22.7	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°	21570.1	100.0
0°-180°	21570.1	100.0

Coefficient of Utilization

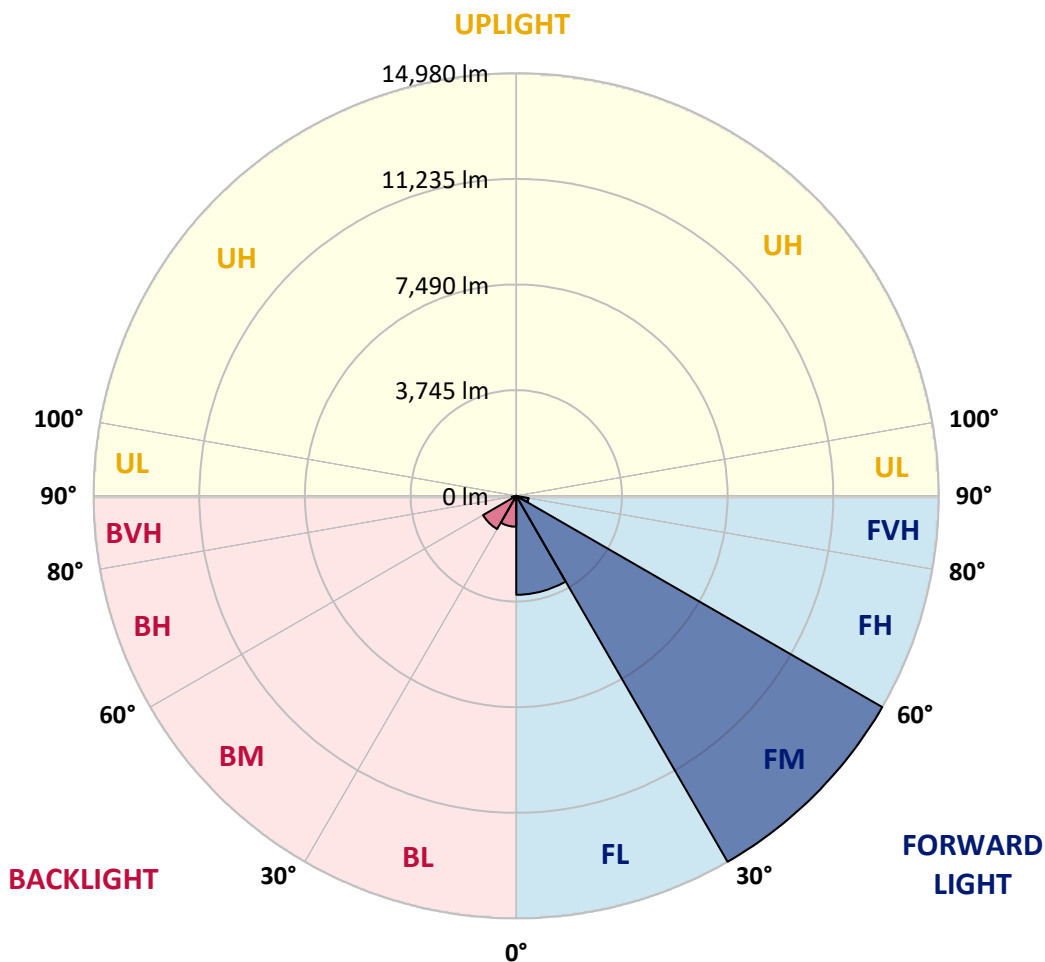


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.0	16.3			
FM (30°-60°)	14980.0	69.4			
FH (60°-80°)	445.9	2.1			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	1097.1	5.1	B3/2500		
BM (30°-60°)	1358.8	6.3	B2/2500		
BH (60°-80°)	158.5	0.7	B1/500		G1/500
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1
2.5°	7549.8	7376.8	7392.5	7279.3	7213.3	7106.4	6961.7	6933.5	6776.2	6562.4	6345.4
5°	8228.9	8188.1	8241.5	8078.0	8084.3	7908.2	7568.6	7574.9	7213.3	6864.2	6527.8
7.5°	8272.9	8178.6	8232.1	8376.7	8461.6	8430.2	8238.3	8071.7	7729.0	7216.4	6725.9
10°	7408.2	7587.5	7644.0	7883.0	8222.7	8581.1	8559.1	8568.5	8282.4	7612.6	6895.7
12.5°	6889.4	6769.9	6961.7	7106.4	7618.9	8313.8	8631.4	8700.6	8722.6	7996.2	7065.5
15°	6653.5	6653.5	6685.0	6725.9	7097.0	7738.4	8386.2	8587.4	9062.2	8499.4	7332.8
17.5°	6801.4	6795.1	6839.1	6754.2	6892.5	7386.2	8159.7	8389.3	9442.7	8993.0	7543.4
20°	7251.0	7273.1	7244.7	6999.5	7008.9	7379.9	7908.2	8269.8	9700.5	9420.7	7823.3
22.5°	7876.7	7889.4	7729.0	7461.7	7383.1	7565.4	8052.8	8329.6	9908.1	9933.2	7908.2
25°	8600.0	8549.7	8518.2	8140.9	7901.9	8059.1	8379.8	8540.3	10037.0	10373.4	8150.3
27.5°	9603.0	9502.4	9310.6	8974.1	8798.1	8574.8	8804.4	9068.5	10404.9	10989.7	8414.4
30°	11084.1	10996.0	10621.9	10187.9	9725.6	9505.5	9577.9	9722.5	11068.3	11703.5	8763.5
32.5°	13313.4	13127.9	12587.1	11760.1	11131.2	10524.4	10505.5	10659.5	11662.6	12690.9	9178.6
35°	15769.2	15712.6	14917.1	14065.0	12848.1	11911.1	11926.7	12008.5	12800.9	13986.3	9722.5
37.5°	17401.2	17712.5	17206.2	16291.2	15269.3	13929.7	13590.1	13618.5	14363.7	15520.9	10703.6
40°	18662.1	18398.0	18457.7	18243.9	17545.9	16634.0	15882.5	15734.6	16171.7	17218.8	11678.4
42.5°	18111.8	18124.4	18492.3	18998.6	19171.5	19105.4	18338.3	18058.3	17718.7	18608.6	12606.0
45°	16558.5	16882.3	17360.3	18699.8	19875.8	20979.5	20828.6	20363.2	18787.9	19709.2	13140.5
47.5°	14080.7	14068.1	14851.1	16593.1	19206.1	21790.8	22476.2	22149.3	19545.6	19586.5	13030.5
48°	13165.7	13392.0	14200.2	16250.3	18781.6	21671.3	22624.1	22212.1	19416.8	19423.0	12936.1
50°	9732.0	9691.1	10697.3	13212.8	16775.5	20363.2	22001.4	22322.2	19413.6	18596.1	12275.8
52.5°	5141.1	5317.2	6049.8	8307.6	11860.7	16665.4	19407.3	19907.3	18728.1	17243.9	11326.2
55°	2185.4	1974.7	2537.5	3751.3	6672.4	11134.3	14237.9	15351.0	15835.2	15259.8	9908.1
57.5°	779.8	852.1	981.0	1411.8	2804.8	6093.9	8489.9	9354.7	10970.8	11197.3	6751.0
60°	499.9	509.4	550.3	647.8	1053.4	2348.8	4028.0	4716.6	5449.3	5625.4	3150.7
62.5°	386.7	389.9	408.8	424.5	499.9	911.9	1512.4	1792.3	1861.5	1600.5	827.0
65°	323.8	327.0	333.3	333.3	355.3	427.7	528.3	581.7	566.0	559.7	468.5
67.5°	248.4	254.7	267.2	267.2	279.8	261.0	292.5	311.3	352.2	427.7	399.3
70°	195.0	198.1	207.5	213.8	213.8	188.7	210.7	229.6	257.8	317.6	314.5
72.5°	151.0	157.2	163.5	163.5	154.1	128.9	151.0	166.6	185.5	220.1	213.8
75°	116.4	116.4	119.5	97.5	75.5	66.0	91.2	110.1	138.4	144.6	119.5
77.5°	31.5	34.6	31.5	28.3	31.5	47.1	59.7	69.1	88.0	88.0	78.6
80°	0.0	3.1	9.4	18.9	31.5	44.0	53.5	59.7	69.1	75.5	72.3
82.5°	0.0	3.1	9.4	18.9	28.3	34.6	47.1	50.3	56.6	66.0	66.0
85°	0.0	3.1	6.3	12.6	18.9	22.0	22.0	18.9	18.9	15.7	12.6
87.5°	0.0	0.0	3.1	6.3	6.3	9.4	9.4	9.4	9.4	9.4	9.4
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°	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1	6229.1
2.5°	6260.6	6163.1	6015.2	5782.6	5559.3	5414.7	5276.3	5122.2	5037.4	5031.1	4983.9
5°	6336.0	6115.9	5763.7	5364.3	4936.7	4568.8	4197.8	3955.6	3738.7	3619.2	3597.2
7.5°	6376.8	6090.7	5521.6	4851.9	4122.3	3521.8	3106.7	2801.7	2682.2	2594.2	2591.0
10°	6461.8	6046.7	5160.0	4172.6	3270.2	2663.3	2377.2	2238.8	2172.8	2147.6	2109.9
12.5°	6524.7	5965.0	4788.9	3474.6	2584.7	2207.4	2081.6	2050.1	2053.3	2065.9	2050.1
15°	6612.7	5892.6	4289.0	2852.0	2169.6	1987.3	1987.3	1993.6	2037.6	2043.9	2040.7
17.5°	6606.4	5751.1	3773.3	2348.8	1918.1	1892.9	1902.4	1962.1	1990.4	1999.9	1977.9
20°	6681.9	5619.0	3241.9	2006.1	1776.6	1814.3	1877.2	1892.9	1927.5	1933.8	1908.6
22.5°	6659.9	5288.9	2748.3	1735.8	1669.7	1742.0	1804.9	1823.8	1814.3	1795.5	1792.3
25°	6619.0	5005.9	2295.4	1556.4	1591.1	1669.7	1729.4	1694.8	1675.9	1679.1	1682.3
27.5°	6546.7	4647.4	1921.2	1430.7	1484.2	1600.5	1597.4	1584.8	1603.7	1587.9	1603.7
30°	6534.1	4289.0	1613.1	1317.5	1405.6	1490.4	1496.7	1518.8	1540.8	1512.4	1540.8
32.5°	6552.9	3895.9	1393.0	1248.3	1358.3	1361.6	1430.7	1452.7	1437.0	1374.1	1380.4
35°	6697.6	3594.0	1232.6	1210.6	1282.9	1286.1	1352.1	1323.8	1254.6	1216.9	1238.9
37.5°	7002.6	3342.5	1157.1	1176.0	1182.3	1223.2	1226.3	1169.7	1176.0	1172.9	1185.5
40°	7392.5	3150.7	1103.7	1144.6	1138.2	1166.6	1053.4	1084.8	1113.1	1122.6	1128.9
42.5°	7659.8	3012.4	1069.1	1094.2	1081.7	1031.4	968.5	999.9	1022.0	1056.5	1062.8
45°	7779.3	2902.3	1028.2	1006.2	1006.2	915.0	889.9	896.1	946.5	984.2	977.9
47.5°	7584.3	2795.4	955.9	889.9	911.9	836.4	808.1	808.1	861.5	908.7	899.3
48°	7508.9	2751.4	959.0	864.7	880.4	823.9	795.5	789.3	849.0	893.0	893.0
50°	7134.7	2587.8	877.3	795.5	764.1	757.8	738.9	745.3	782.9	823.9	823.9
52.5°	6405.2	2235.7	742.0	682.3	625.8	663.4	672.9	660.3	679.2	716.9	713.8
55°	5345.5	1716.9	594.3	566.0	521.9	562.8	581.7	566.0	547.2	575.4	575.4
57.5°	3424.3	924.5	474.8	481.1	437.1	477.9	493.7	455.9	421.3	443.3	440.2
60°	1543.9	553.4	389.9	380.5	352.2	399.3	424.5	380.5	333.3	349.1	364.7
62.5°	578.6	393.1	295.6	289.3	283.0	327.0	339.6	305.0	257.8	267.2	270.4
65°	424.5	345.9	235.8	213.8	226.4	257.8	251.6	217.0	185.5	185.5	191.8
67.5°	361.6	301.8	191.8	166.6	166.6	169.8	157.2	138.4	128.9	135.2	141.5
70°	283.0	239.0	151.0	128.9	116.4	103.7	91.2	88.0	78.6	88.0	84.9
72.5°	182.4	160.4	116.4	97.5	88.0	72.3	59.7	56.6	47.1	44.0	44.0
75°	97.5	97.5	91.2	78.6	69.1	56.6	47.1	37.7	25.1	18.9	18.9
77.5°	69.1	75.5	81.7	75.5	62.9	47.1	37.7	25.1	12.6	6.3	6.3
80°	66.0	75.5	81.7	72.3	62.9	47.1	34.6	18.9	9.4	3.1	3.1
82.5°	59.7	69.1	75.5	66.0	56.6	40.9	31.5	18.9	9.4	3.1	3.1
85°	12.6	15.7	18.9	18.9	22.0	28.3	22.0	15.7	6.3	3.1	3.1
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	6.3	6.3	3.1	3.1	3.1
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)