

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: P269454

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24725.5 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 226
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: 25 FT

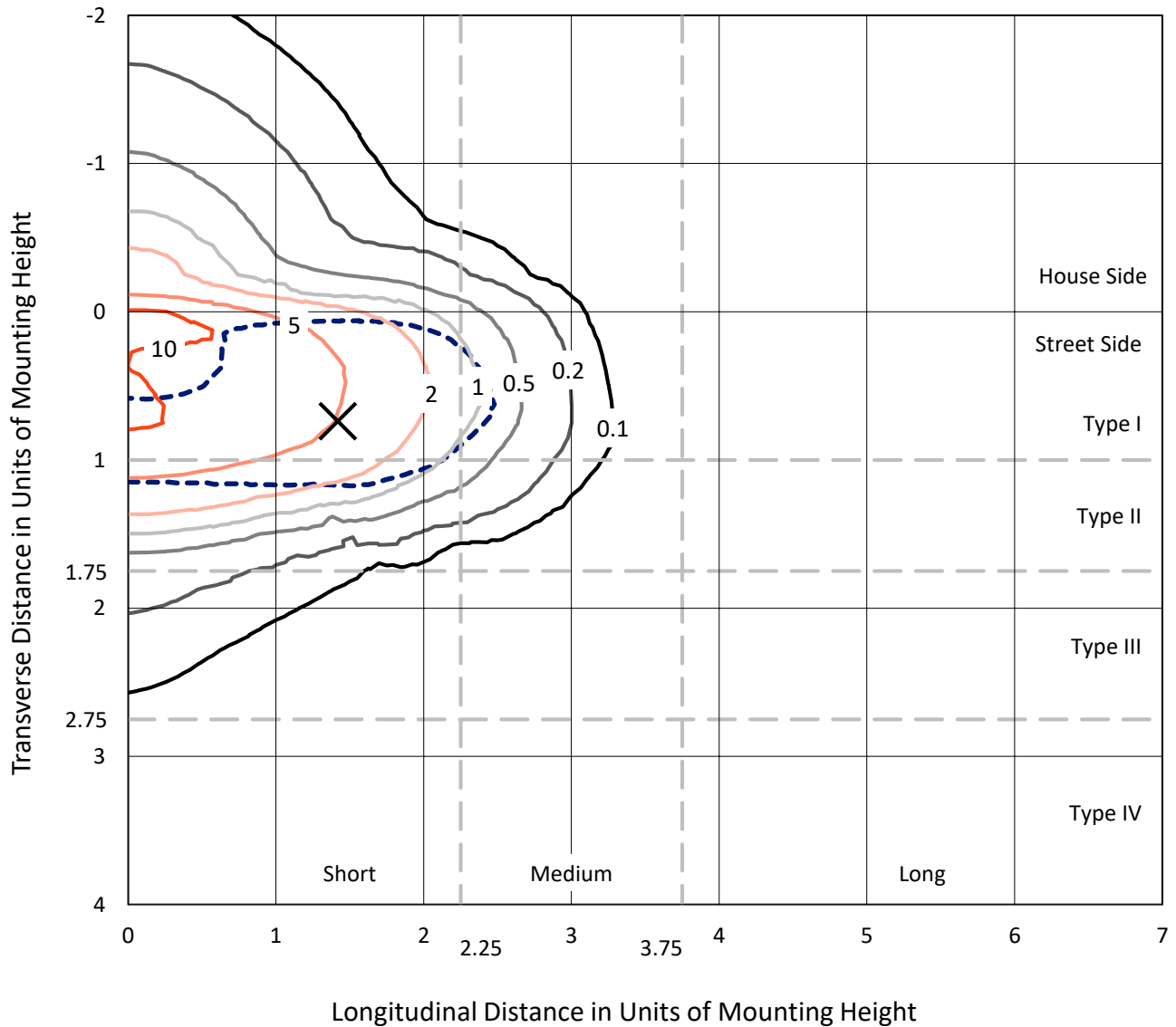


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

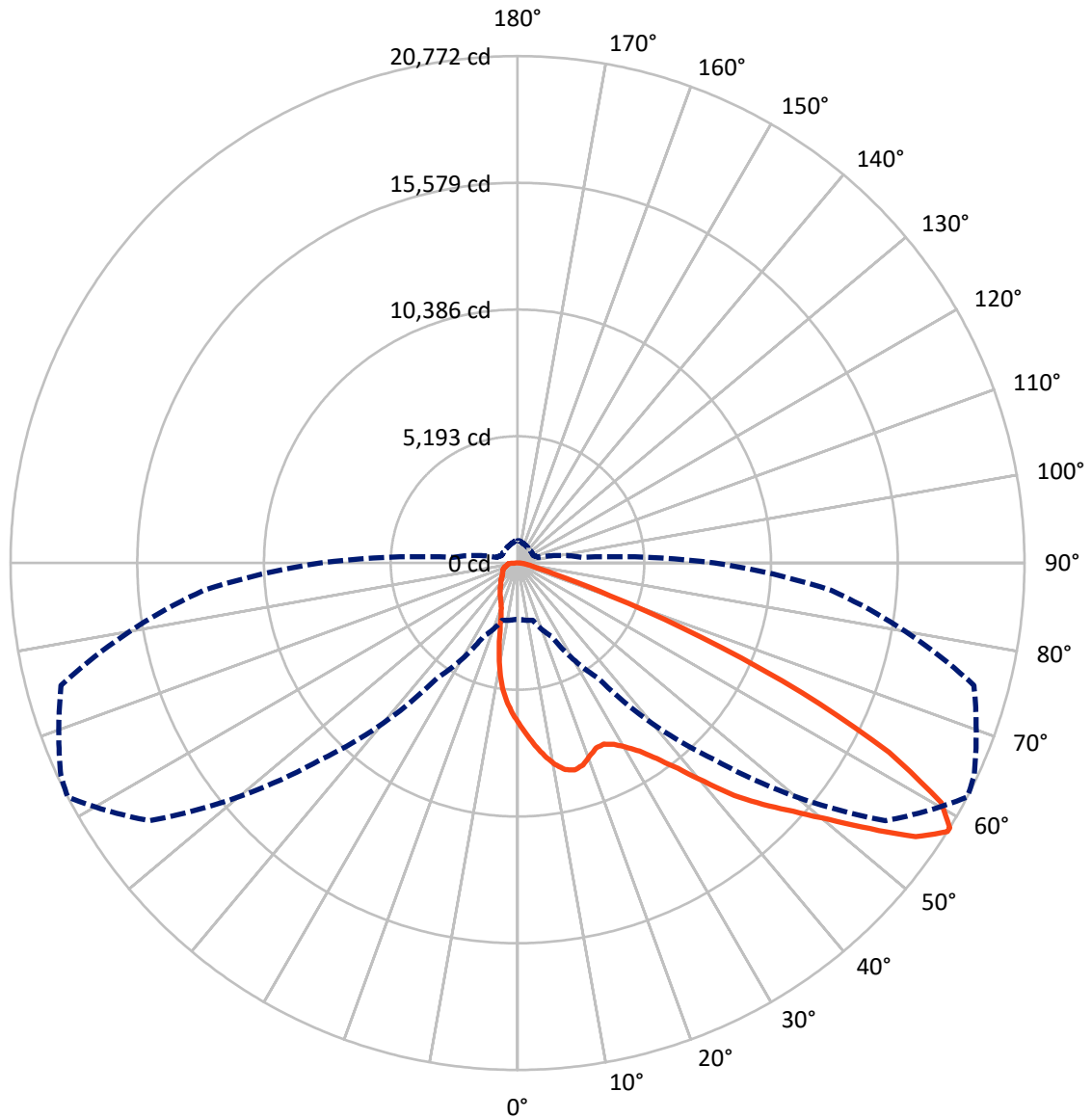


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3770.7	0.0	3770.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20954.7	0.0	20954.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	24725.5	0.0	24725.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.4	2.4
10°-20°	1501.5	6.1
20°-30°	2427.2	9.8
30°-40°	3853.1	15.6
40°-50°	5637.9	22.8
50°-60°	5896.8	23.8
60°-70°	3483.8	14.1
70°-80°	981.4	4.0
80°-90°	356.3	1.4
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°	24725.5	100.0
0°-180°	24725.5	100.0



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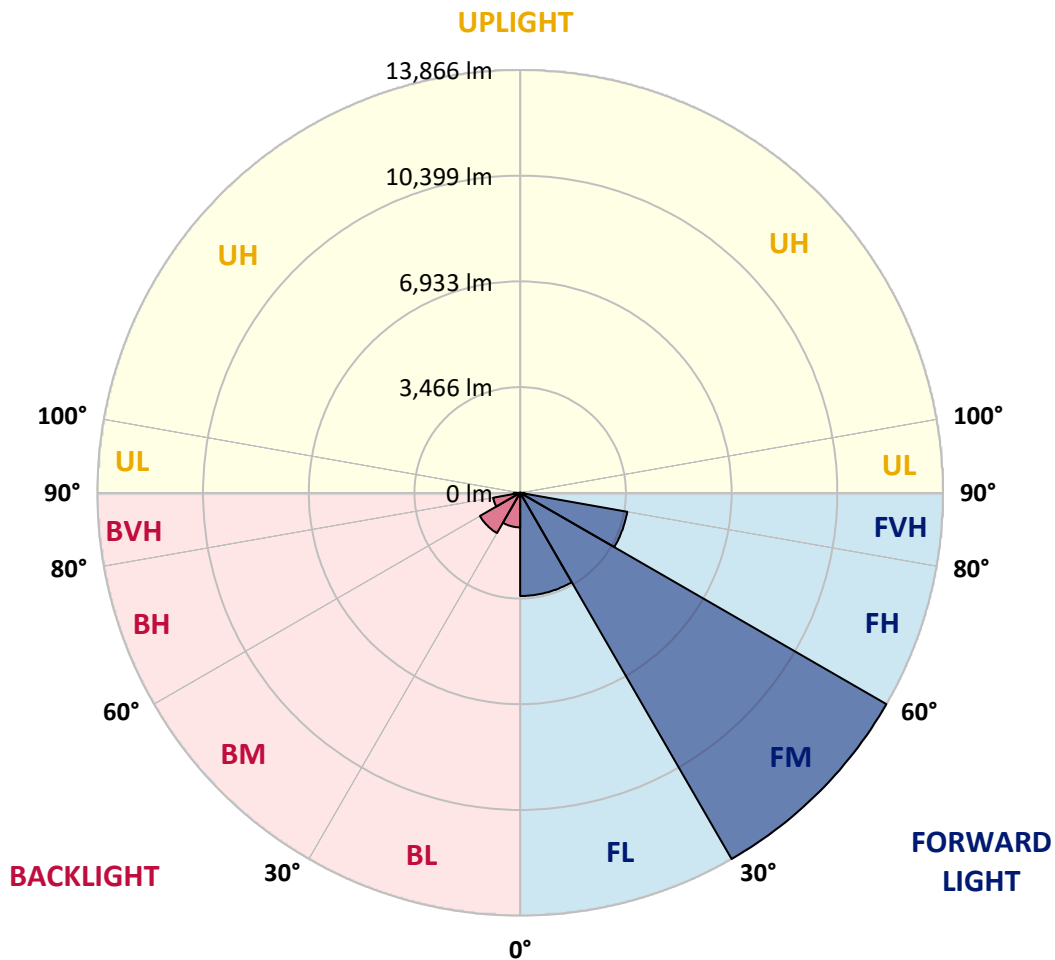
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.8	13.7			
FM (30°-60°)	13865.9	56.1			
FH (60°-80°)	3565.5	14.4			G2/5000
FVH (80°-90°)	140.6	0.6			G2/225
BL (0°-30°)	1133.3	4.6	B3/2500		
BM (30°-60°)	1522.0	6.2	B2/2500		
BH (60°-80°)	899.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	215.7	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8
2.5°	7505.1	7444.6	7406.2	7372.4	7328.2	7233.8	7106.9	7026.5	6985.8	6847.2	6683.1
5°	8241.0	8187.3	8147.7	8102.4	8023.2	7875.4	7670.4	7507.5	7427.0	7150.0	6821.5
7.5°	8068.5	8090.8	8159.5	8279.4	8381.7	8362.1	8179.2	7972.0	7866.0	7480.6	6982.3
10°	7030.0	7068.5	7187.2	7467.8	7922.0	8387.7	8529.6	8386.4	8279.4	7807.8	7147.6
12.5°	6821.5	6820.6	6829.9	6904.4	7174.5	7829.9	8541.4	8685.7	8621.7	8119.8	7316.4
15°	6906.6	6909.0	6901.9	6933.4	7017.2	7276.9	8185.0	8801.0	8846.4	8434.1	7491.1
17.5°	7130.1	7124.4	7097.6	7097.6	7127.8	7229.1	7765.8	8693.8	8903.5	8712.4	7644.8
20°	7505.1	7478.3	7407.2	7342.0	7309.5	7364.1	7593.6	8447.0	8804.5	8955.8	7771.6
22.5°	7959.2	7938.2	7822.9	7683.3	7570.2	7569.1	7682.0	8231.6	8633.3	9185.2	7878.9
25°	8545.9	8512.2	8341.0	8117.5	7919.5	7843.9	7875.4	8221.1	8540.1	9434.3	7974.3
27.5°	9235.3	9173.5	8971.0	8648.4	8357.3	8204.8	8159.5	8410.9	8625.2	9742.8	8107.1
30°	10071.2	10000.2	9740.5	9320.3	8909.2	8658.9	8562.3	8747.3	8907.0	10119.0	8320.1
32.5°	11022.5	10919.9	10619.7	10156.1	9615.9	9234.0	9077.0	9192.1	9319.0	10571.9	8586.7
35°	12337.0	12214.7	11780.5	11141.1	10531.1	10006.0	9754.5	9838.3	9961.8	11247.1	8972.1
37.5°	13233.4	13178.8	12890.0	12289.3	11625.5	11021.2	10632.3	10681.2	10751.2	12091.2	9465.8
40°	13225.2	13247.5	13253.2	13259.1	12807.3	12228.6	11810.6	11759.4	11745.5	13018.1	10026.9
42.5°	12562.7	12653.6	12947.0	13541.9	13816.8	13551.3	13168.3	13020.4	12947.0	14110.1	10621.9
45°	11548.7	11597.6	12147.2	13309.1	14333.7	14861.1	14571.2	14105.5	13972.7	15113.9	11115.5
47.5°	11025.9	11079.4	11425.4	12692.1	14327.8	15919.6	16087.1	15200.0	14962.3	15987.0	11541.8
50°	9781.3	9893.0	10328.5	11618.6	13805.2	16406.1	17671.7	16504.0	16012.6	16836.9	11968.9
52.5°	7495.7	7668.1	8155.9	9853.5	12479.0	16165.2	18939.7	18085.0	17391.1	17717.2	12335.7
55°	4728.1	4856.2	5266.1	6959.0	9982.8	14911.1	19420.5	19795.4	19178.4	18550.8	12653.6
57.5°	2570.8	2627.8	2781.5	3842.2	6493.3	12138.9	18719.6	20768.9	20512.6	19258.8	12893.5
58°	2300.6	2339.0	2434.5	3329.8	5758.7	11381.0	18408.7	20772.2	20644.2	19362.2	12912.1
60°	1706.9	1687.0	1602.0	1900.2	3205.3	7862.5	16529.6	19940.9	20317.1	19489.3	12821.2
62.5°	1499.6	1451.9	1278.4	1258.6	1559.0	3622.1	12647.7	17081.5	17969.9	18765.1	12269.4
65°	1408.8	1357.6	1134.0	1061.8	1124.7	1532.1	7450.4	12810.8	13925.0	16569.1	10858.3
67.5°	1341.3	1275.0	1042.0	943.1	947.7	1013.0	2986.4	8068.5	9322.6	12580.3	8445.9
70°	1276.1	1203.9	964.1	849.9	823.1	801.1	1187.6	4039.0	5176.6	7946.3	5384.9
72.5°	1206.2	1135.2	895.3	776.6	724.3	650.8	775.4	1652.2	2307.7	3759.5	2442.8
75°	1104.9	1040.9	826.7	711.4	636.9	539.1	585.6	862.7	1035.0	1497.2	1177.0
77.5°	980.3	927.9	749.8	657.7	564.7	437.7	450.6	598.5	663.7	857.0	699.7
80°	704.5	723.0	667.1	591.4	503.1	355.1	345.8	436.7	471.5	550.8	455.3
82.5°	494.8	505.2	551.9	483.2	415.6	279.5	254.9	307.4	328.3	362.0	245.6
85°	341.1	329.5	378.4	336.4	300.5	186.3	174.6	208.3	221.3	224.7	126.9
87.5°	205.0	205.0	218.8	180.5	161.9	96.7	94.3	118.8	126.9	121.1	69.9
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°	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8	6567.8
2.5°	6585.2	6502.7	6326.9	6185.9	6007.8	5822.6	5719.1	5608.5	5532.8	5478.0	5565.4
5°	6635.3	6466.4	6103.3	5758.7	5378.0	4982.0	4681.6	4402.2	4207.8	4086.7	4200.8
7.5°	6714.6	6455.0	5876.3	5287.1	4603.6	3944.6	3355.4	2986.4	2771.0	2665.1	2731.4
10°	6805.3	6436.3	5609.6	4647.9	3669.8	2839.7	2399.6	2250.7	2201.7	2182.0	2191.2
12.5°	6880.9	6396.7	5282.5	3874.7	2755.9	2242.4	2115.6	2112.1	2122.5	2124.9	2128.4
15°	6934.6	6338.4	4796.9	3069.1	2204.0	2043.4	2036.4	2057.3	2077.2	2085.2	2089.9
17.5°	6970.7	6218.5	4248.5	2426.4	1974.7	1946.6	1962.9	1989.7	2010.8	2016.5	2021.2
20°	6967.2	6042.7	3595.3	2023.5	1850.1	1850.1	1878.0	1898.9	1900.2	1893.2	1896.6
22.5°	6931.1	5801.8	2962.0	1809.4	1739.5	1759.3	1787.2	1767.4	1685.8	1632.3	1635.9
25°	6870.5	5514.2	2419.4	1673.2	1637.0	1671.9	1663.8	1514.7	1398.3	1345.9	1345.9
27.5°	6817.0	5174.1	2002.6	1554.3	1534.6	1577.7	1433.2	1298.2	1249.4	1224.8	1216.8
30°	6778.6	4807.4	1724.3	1440.3	1437.8	1406.4	1243.4	1206.2	1198.1	1178.2	1171.3
32.5°	6787.9	4436.0	1546.3	1340.1	1348.3	1203.9	1152.6	1160.8	1153.9	1132.9	1123.5
35°	6864.7	4083.2	1429.7	1249.4	1224.8	1087.5	1099.0	1114.3	1111.9	1082.7	1073.5
37.5°	7002.1	3749.0	1352.8	1173.6	1068.9	1029.3	1047.9	1071.1	1065.3	1045.5	1038.6
40°	7146.5	3434.7	1290.1	1114.3	976.8	989.7	1005.9	1018.8	1024.5	1030.4	1025.8
42.5°	7287.4	3106.3	1213.3	1053.7	938.4	952.5	959.4	972.1	1003.6	1025.8	1024.5
45°	7371.2	2797.9	1134.0	967.6	908.1	916.4	911.6	937.2	975.6	1011.9	1013.0
47.5°	7464.3	2558.0	1071.1	888.3	879.0	884.9	870.8	896.5	931.5	975.6	980.3
50°	7577.3	2414.7	1021.2	825.5	839.5	839.5	836.0	859.3	908.1	959.4	968.7
52.5°	7705.3	2386.8	979.2	780.1	799.9	798.8	802.1	837.1	890.7	940.7	948.9
55°	7861.3	2462.6	933.8	746.3	761.5	766.2	777.8	817.4	862.7	919.9	923.3
57.5°	8043.0	2616.1	897.6	719.5	726.5	741.7	760.2	796.3	845.2	908.1	911.6
58°	8073.2	2648.8	891.8	717.1	719.5	737.0	758.0	792.8	841.8	910.5	913.9
60°	8074.4	2757.1	879.0	706.7	692.8	721.9	745.1	780.1	836.0	918.6	926.8
62.5°	7788.0	2755.9	869.6	691.5	664.8	700.9	727.6	768.4	830.2	938.4	954.7
65°	6857.8	2504.5	825.5	668.2	642.6	682.4	712.5	760.2	846.5	1024.5	1035.0
67.5°	5363.9	2052.6	742.8	635.7	613.6	663.7	703.3	759.1	863.9	1044.4	1051.3
70°	3546.5	1535.7	652.0	598.5	583.3	641.5	708.0	798.8	844.0	1002.5	983.9
72.5°	1840.7	1078.1	578.7	551.9	548.3	621.7	775.4	794.0	824.4	943.1	919.9
75°	966.3	748.6	514.5	500.6	506.5	617.0	915.2	773.1	798.8	902.3	946.5
77.5°	591.4	604.3	459.9	454.1	465.7	603.1	913.9	746.3	761.5	830.2	879.0
80°	395.9	490.1	418.0	419.1	427.4	551.9	820.8	704.5	716.0	784.7	834.9
82.5°	250.3	290.0	379.5	399.3	388.8	455.3	697.4	641.5	657.7	897.6	948.9
85°	126.9	181.6	329.5	384.2	350.5	319.0	565.8	562.3	570.6	647.4	676.5
87.5°	58.2	100.2	257.4	335.2	264.3	199.2	411.1	416.9	449.4	459.9	459.9
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)