

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: P300314

Luminaire Tested: **GLNA-AF-04-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300314
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: GLNA-AF-04-LED-E1-AFL-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23746.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

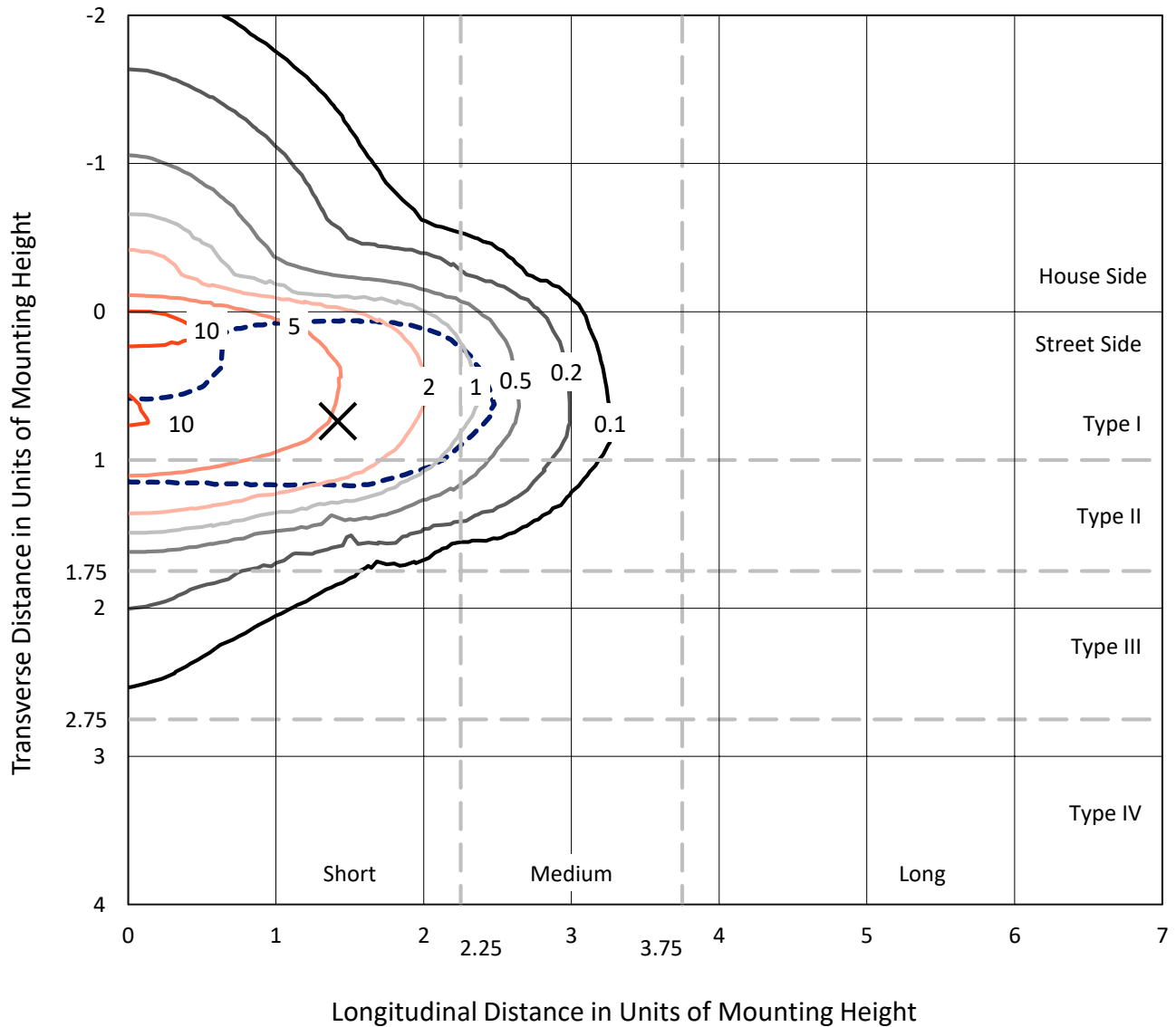
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

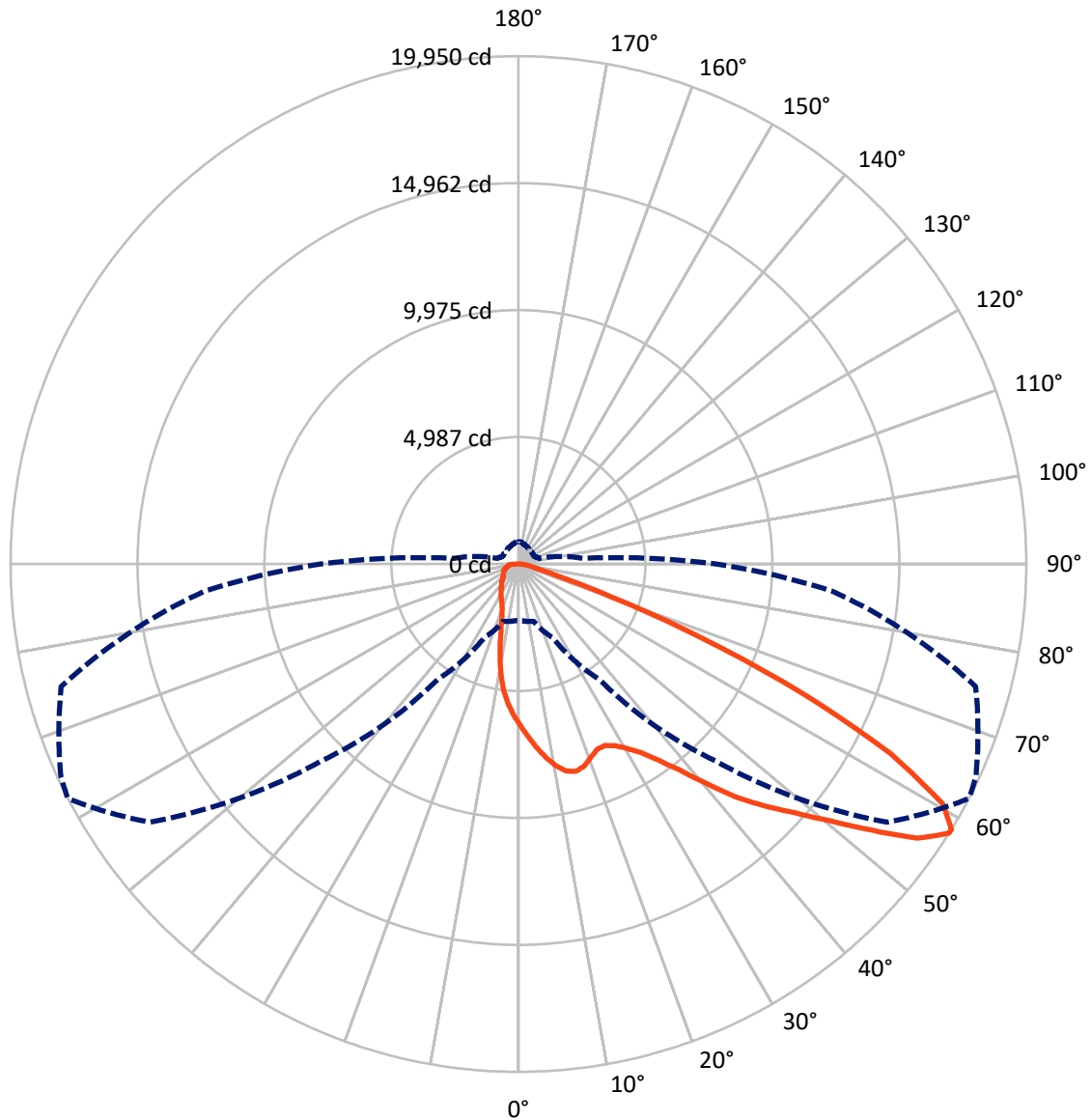
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	3621.4	0.0	3621.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20124.8	0.0	20124.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	23746.2	0.0	23746.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.1	2.4
10°-20°	1442.0	6.1
20°-30°	2331.1	9.8
30°-40°	3700.5	15.6
40°-50°	5414.6	22.8
50°-60°	5663.3	23.8
60°-70°	3345.9	14.1
70°-80°	942.5	4.0
80°-90°	342.2	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°	23746.2	100.0
0°-180°	23746.2	100.0



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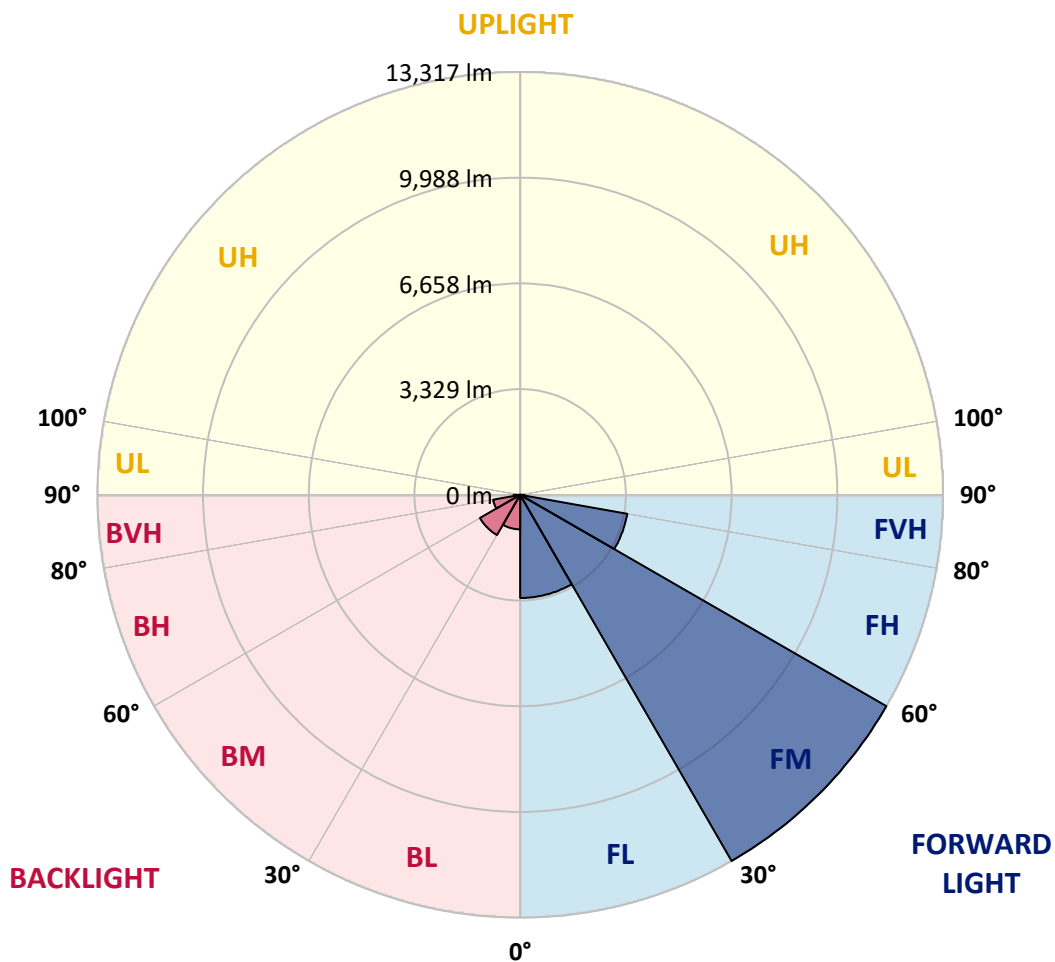
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3248.8	13.7			
FM	(30°-60°)	13316.8	56.1			
FH	(60°-80°)	3424.3	14.4			G2/5000
FVH	(80°-90°)	135.0	0.6			G2/225
BL	(0°-30°)	1088.4	4.6	B3/2500		
BM	(30°-60°)	1461.7	6.2	B2/2500		
BH	(60°-80°)	864.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	207.2	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°	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7
2.5°	7207.8	7149.7	7112.8	7080.4	7037.9	6947.3	6825.4	6748.3	6709.1	6576.1	6418.4
5°	7914.5	7863.1	7825.1	7781.5	7705.4	7563.4	7366.6	7210.1	7132.9	6866.8	6551.5
7.5°	7749.0	7770.3	7836.3	7951.4	8049.8	8030.8	7855.3	7656.2	7554.5	7184.4	6705.8
10°	6751.6	6788.5	6902.6	7172.1	7608.2	8055.4	8191.9	8054.3	7951.4	7498.6	6864.6
12.5°	6551.5	6550.4	6559.3	6630.9	6890.3	7519.8	8203.0	8341.7	8280.2	7798.2	7026.7
15°	6633.1	6635.3	6628.6	6658.8	6739.3	6988.7	7860.9	8452.4	8496.0	8100.2	7194.4
17.5°	6847.8	6842.2	6816.5	6816.5	6845.6	6942.8	7458.3	8349.5	8550.8	8367.4	7342.0
20°	7207.8	7182.1	7113.9	7051.3	7020.0	7072.5	7292.8	8112.5	8455.7	8601.1	7463.9
22.5°	7643.9	7623.8	7513.1	7378.9	7270.5	7269.3	7377.8	7905.6	8291.4	8821.4	7566.8
25°	8207.5	8175.1	8010.7	7796.0	7605.9	7533.2	7563.4	7895.5	8201.9	9060.7	7658.5
27.5°	8869.5	8810.2	8615.6	8305.9	8026.4	7879.9	7836.3	8077.8	8283.5	9357.0	7785.9
30°	9672.3	9604.1	9354.8	8951.1	8556.4	8316.0	8223.2	8401.0	8554.1	9718.2	7990.6
32.5°	10585.9	10487.5	10199.0	9754.0	9235.1	8868.4	8717.4	8828.1	8950.0	10153.2	8246.6
35°	11848.3	11730.9	11313.8	10699.9	10114.0	9609.7	9368.2	9448.7	9567.2	10801.7	8616.8
37.5°	12709.3	12656.8	12379.5	11802.5	11165.1	10584.8	10211.3	10258.3	10325.4	11612.4	9090.9
40°	12701.5	12722.8	12728.3	12733.9	12300.1	11744.3	11342.9	11293.7	11280.3	12502.5	9629.8
42.5°	12065.3	12152.5	12434.3	13005.7	13269.5	13014.6	12646.7	12504.7	12434.3	13551.3	10201.2
45°	11091.3	11138.3	11666.1	12782.0	13766.0	14272.6	13994.1	13546.9	13419.4	14515.2	10675.3
47.5°	10589.2	10640.7	10972.8	12189.4	13760.4	15289.0	15450.0	14598.0	14369.8	15353.9	11084.6
50°	9393.9	9501.3	9919.5	11158.4	13258.4	15756.4	16971.9	15850.3	15378.5	16170.1	11495.0
52.5°	7198.9	7364.4	7832.9	9463.2	11984.7	15524.9	18189.6	17368.8	16702.4	17015.5	11847.2
55°	4541.0	4664.0	5057.6	6683.4	9587.4	14320.6	18651.4	19011.4	18418.8	17816.1	12152.5
57.5°	2469.0	2523.8	2671.4	3690.0	6236.1	11658.2	17978.2	19946.3	19700.3	18496.0	12382.8
58°	2209.5	2246.4	2338.1	3198.0	5530.6	10930.3	17679.7	19949.6	19826.6	18595.5	12400.7
60°	1639.3	1620.3	1538.6	1824.9	3078.4	7551.1	15874.9	19151.2	19512.4	18717.4	12313.5
62.5°	1440.2	1394.4	1227.8	1208.8	1497.3	3478.7	12146.9	16404.9	17258.1	18021.8	11783.5
65°	1353.0	1303.8	1089.1	1019.8	1080.2	1471.5	7155.3	12303.4	13373.5	15912.9	10428.2
67.5°	1288.2	1224.4	1000.8	905.7	910.2	972.8	2868.2	7749.0	8953.3	12082.0	8111.3
70°	1225.5	1156.2	925.9	816.3	790.6	769.3	1140.6	3879.0	4971.5	7631.6	5171.6
72.5°	1158.4	1090.2	859.9	745.8	695.5	625.1	744.7	1586.7	2216.3	3610.6	2346.0
75°	1061.2	999.7	793.9	683.2	611.6	517.7	562.4	828.6	994.1	1438.0	1130.5
77.5°	941.5	891.2	720.1	631.8	542.3	420.4	432.7	574.7	637.4	823.0	672.0
80°	676.5	694.4	640.7	568.0	483.1	341.0	332.1	419.3	452.9	528.9	437.2
82.5°	475.2	485.3	530.0	464.0	399.2	268.4	244.9	295.2	315.3	347.8	235.9
85°	327.6	316.4	363.4	323.2	288.5	178.9	167.7	200.2	212.5	215.8	121.9
87.5°	196.8	196.8	210.2	173.3	155.4	92.8	90.6	114.1	121.9	116.3	67.1
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°	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7	6307.7
2.5°	6324.5	6245.1	6076.2	5940.9	5769.9	5592.1	5492.5	5386.3	5313.6	5261.1	5344.9
5°	6372.6	6210.4	5861.5	5530.6	5164.9	4784.7	4496.2	4227.9	4041.1	3924.8	4034.4
7.5°	6448.6	6199.2	5643.5	5077.7	4421.3	3788.4	3222.6	2868.2	2661.3	2559.5	2623.3
10°	6535.8	6181.3	5387.4	4463.8	3524.5	2727.3	2304.6	2161.5	2114.5	2095.5	2104.4
12.5°	6608.5	6143.3	5073.2	3721.3	2646.8	2153.6	2031.7	2028.4	2038.5	2040.7	2044.0
15°	6659.9	6087.4	4606.9	2947.5	2116.7	1962.4	1955.7	1975.8	1994.8	2002.7	2007.1
17.5°	6694.6	5972.2	4080.3	2330.3	1896.4	1869.6	1885.3	1911.0	1931.1	1936.7	1941.2
20°	6691.2	5803.4	3453.0	1943.4	1776.8	1776.8	1803.6	1823.8	1824.9	1818.2	1821.5
22.5°	6656.6	5571.9	2844.7	1737.7	1670.6	1689.6	1716.4	1697.4	1619.1	1567.7	1571.1
25°	6598.4	5295.7	2323.6	1606.8	1572.2	1605.7	1597.9	1454.8	1342.9	1292.6	1292.6
27.5°	6547.0	4969.2	1923.3	1492.8	1473.8	1515.1	1376.5	1246.8	1199.8	1176.3	1168.5
30°	6510.1	4617.0	1656.0	1383.2	1381.0	1350.8	1194.2	1158.4	1150.6	1131.6	1124.9
32.5°	6519.0	4260.3	1485.0	1287.0	1294.9	1156.2	1107.0	1114.8	1108.1	1088.0	1079.1
35°	6592.8	3921.5	1373.1	1199.8	1176.3	1044.4	1055.6	1070.1	1067.9	1039.9	1031.0
37.5°	6724.8	3600.6	1299.3	1127.1	1026.5	988.5	1006.4	1028.7	1023.1	1004.1	997.4
40°	6863.4	3298.7	1239.0	1070.1	938.2	950.5	966.1	978.4	984.0	989.6	985.1
42.5°	6998.7	2983.3	1165.2	1012.0	901.3	914.7	921.4	933.7	963.9	985.1	984.0
45°	7079.3	2687.0	1089.1	929.2	872.2	880.0	875.5	900.1	937.0	971.7	972.8
47.5°	7168.7	2456.7	1028.7	853.2	844.2	849.8	836.4	861.0	894.6	937.0	941.5
50°	7277.2	2319.1	980.7	792.8	806.2	806.2	802.9	825.2	872.2	921.4	930.3
52.5°	7400.2	2292.3	940.4	749.2	768.2	767.1	770.4	804.0	855.4	903.5	911.3
55°	7550.0	2365.0	896.8	716.8	731.3	735.8	747.0	785.0	828.6	883.4	886.7
57.5°	7724.4	2512.6	862.1	691.0	697.7	712.3	730.2	764.8	811.8	872.2	875.5
58°	7753.5	2543.9	856.5	688.8	691.0	707.8	727.9	761.5	808.5	874.4	877.8
60°	7754.6	2647.9	844.2	678.7	665.3	693.3	715.6	749.2	802.9	882.3	890.1
62.5°	7479.6	2646.8	835.3	664.2	638.5	673.1	698.9	738.0	797.3	901.3	916.9
65°	6586.1	2405.2	792.8	641.8	617.2	655.3	684.3	730.2	812.9	984.0	994.1
67.5°	5151.5	1971.4	713.4	610.5	589.3	637.4	675.4	729.1	829.7	1003.0	1009.7
70°	3406.0	1474.9	626.2	574.7	560.2	616.1	679.9	767.1	810.7	962.8	944.9
72.5°	1767.9	1035.4	555.7	530.0	526.7	597.1	744.7	762.6	791.7	905.7	883.4
75°	928.1	719.0	494.2	480.8	486.4	592.6	878.9	742.5	767.1	866.6	909.1
77.5°	568.0	580.3	441.7	436.1	447.3	579.2	877.8	716.8	731.3	797.3	844.2
80°	380.2	470.8	401.4	402.5	410.4	530.0	788.3	676.5	687.7	753.7	801.7
82.5°	240.4	278.4	364.5	383.5	373.5	437.2	669.8	616.1	631.8	862.1	911.3
85°	121.9	174.4	316.4	369.0	336.6	306.4	543.4	540.1	547.9	621.7	649.7
87.5°	55.9	96.2	247.1	322.0	253.8	191.2	394.7	400.3	431.6	441.7	441.7
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)