

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: P192317

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T4FT-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35272 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

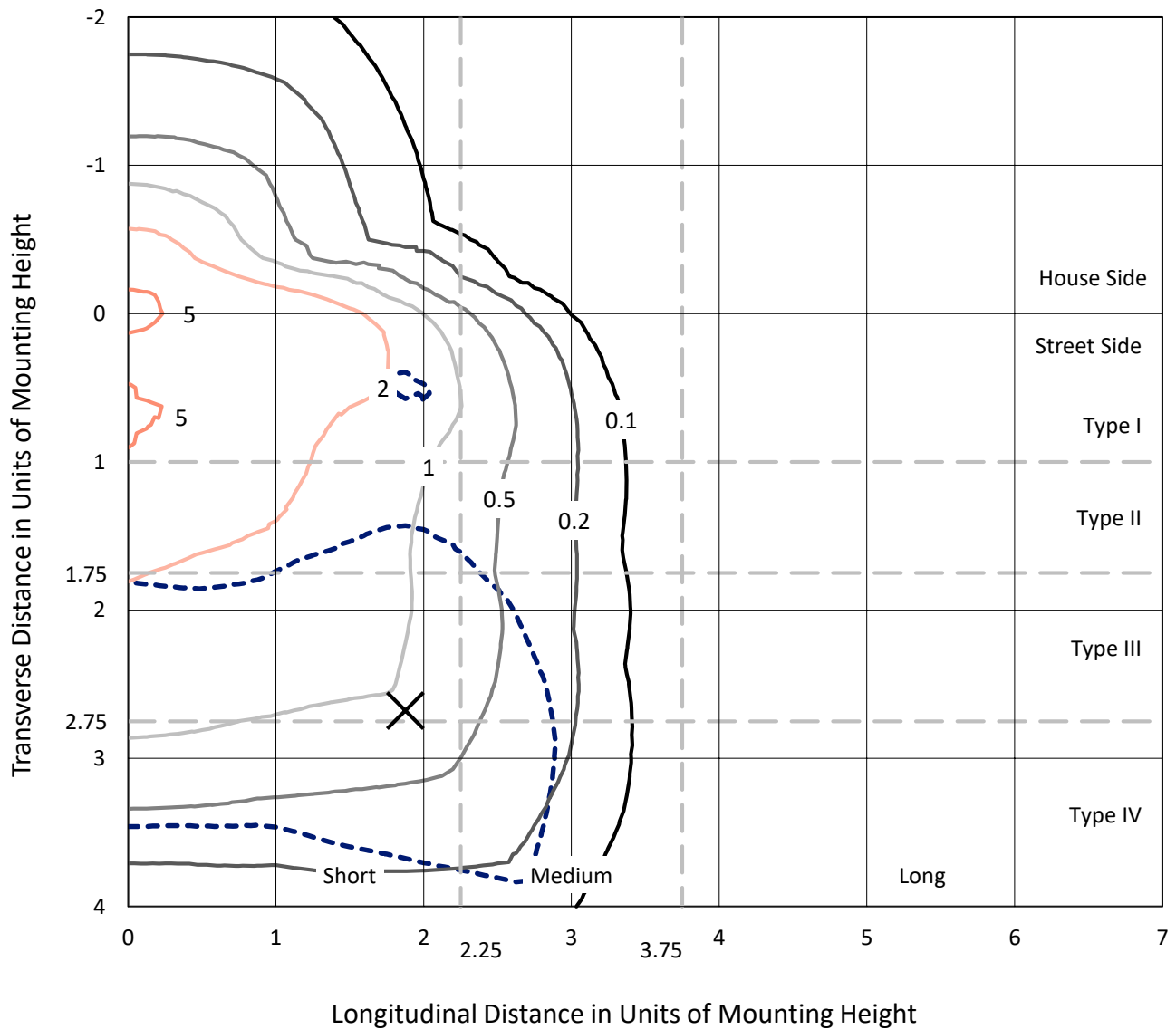


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

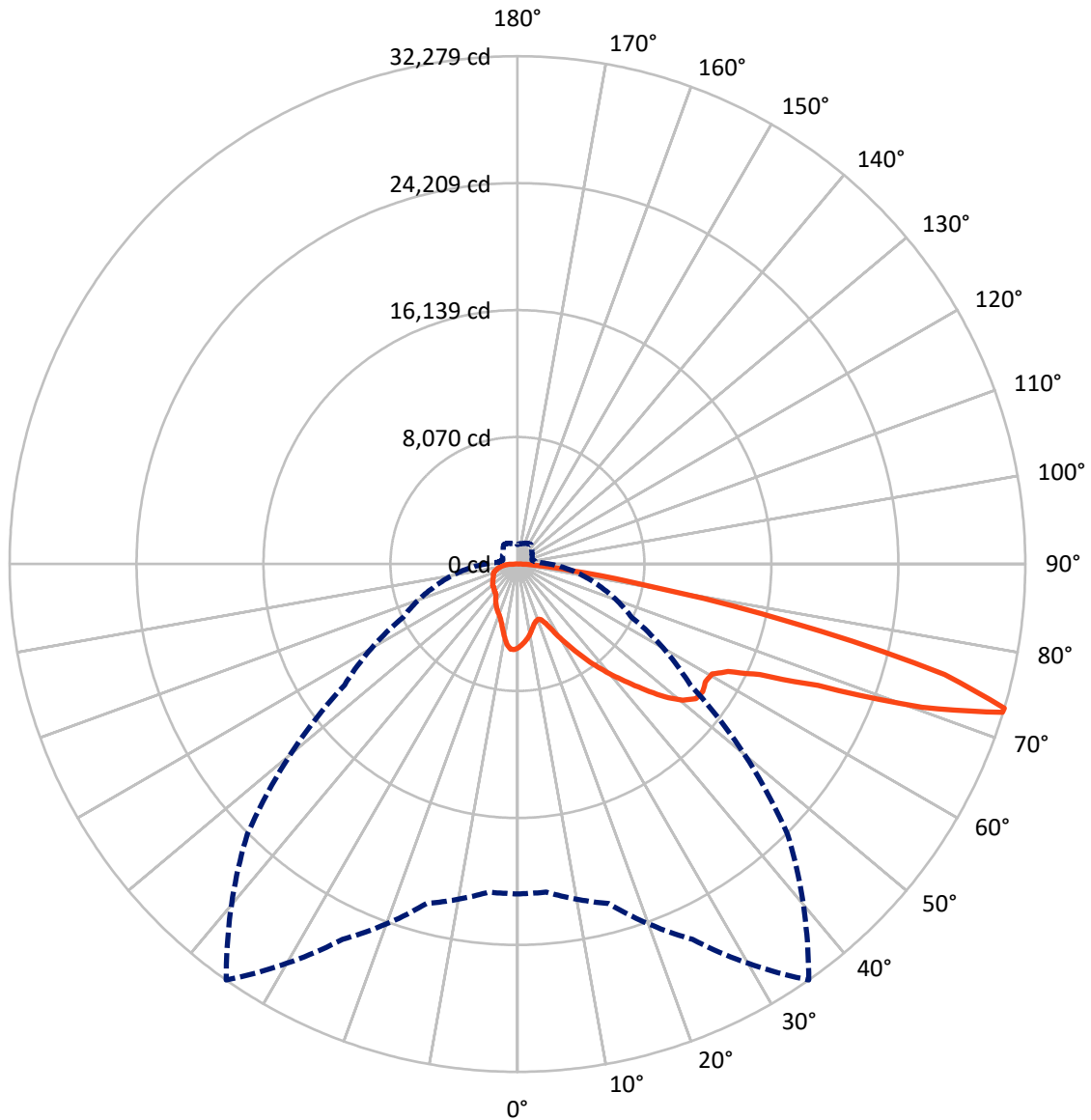


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6727.3	0.0	6727.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	28544.7	0.0	28544.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	35272.0	0.0	35272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	1.4
10°-20°	1202.9	3.4
20°-30°	1944.6	5.5
30°-40°	3260.8	9.2
40°-50°	5026.4	14.3
50°-60°	6743.4	19.1
60°-70°	8983.6	25.5
70°-80°	6851.8	19.4
80°-90°	776.6	2.2
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°	35272.0	100.0
0°-180°	35272.0	100.0

Coefficient of Utilization



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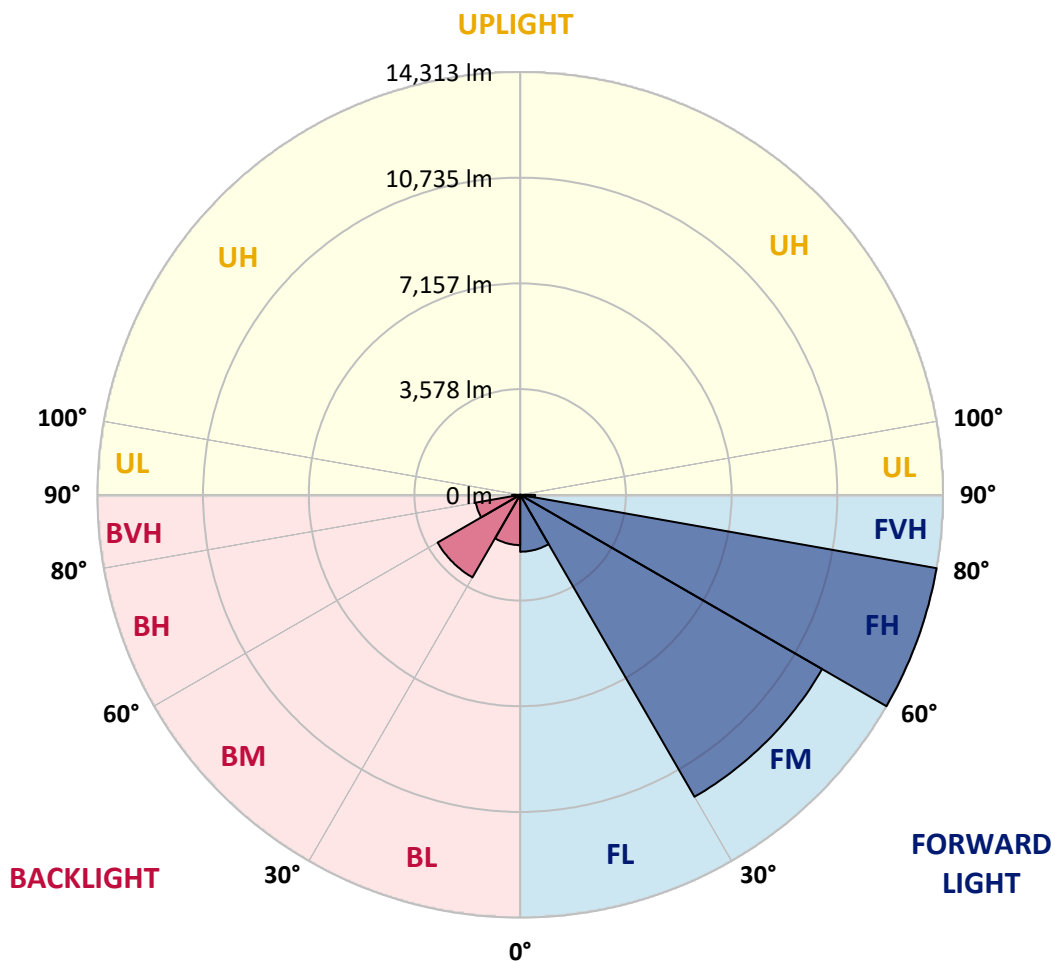
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.0	5.5			
FM (30°-60°)	11802.2	33.5			
FH (60°-80°)	14313.4	40.6			G5
FVH (80°-90°)	502.0	1.4			G4/750
BL (0°-30°)	1702.3	4.8	B3/2500		
BM (30°-60°)	3228.4	9.2	B3/5000		
BH (60°-80°)	1522.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	274.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6
2.5°	5113.6	5123.8	5111.9	5127.2	5152.6	5179.7	5198.3	5225.4	5255.9	5298.2	5308.4
5°	4873.1	4888.3	4888.3	4915.4	4964.6	5008.6	5049.2	5093.3	5157.6	5230.5	5259.3
7.5°	4608.9	4617.3	4632.6	4673.2	4744.4	4807.0	4864.6	4935.8	5023.8	5120.4	5171.2
10°	4290.4	4302.3	4326.0	4383.6	4480.1	4566.5	4649.5	4747.7	4859.5	4979.8	5044.2
12.5°	4065.1	4061.8	4071.9	4114.3	4199.0	4304.0	4424.2	4549.6	4686.8	4827.4	4905.3
15°	3988.9	3970.3	3931.3	3921.2	3966.9	4071.9	4210.8	4364.9	4529.2	4698.6	4795.2
17.5°	4036.3	4004.2	3897.5	3819.5	3812.8	3892.4	4039.7	4212.5	4402.2	4608.9	4729.1
20°	4334.5	4258.2	3995.7	3814.5	3751.8	3790.7	3919.5	4102.4	4326.0	4600.4	4754.5
22.5°	5047.5	4935.8	4378.5	4041.4	3829.7	3782.3	3878.8	4073.6	4334.5	4705.4	4901.9
25°	6085.9	5926.6	5035.7	4607.2	4170.2	3917.8	3939.8	4139.7	4454.7	4949.3	5186.4
27.5°	6905.7	6802.3	5894.5	5404.9	4790.1	4283.6	4138.0	4305.7	4700.3	5349.0	5591.3
30°	7393.5	7330.8	6812.5	6309.4	5581.1	4866.3	4517.4	4617.3	5084.8	5902.9	6102.8
32.5°	7959.2	7921.9	7667.9	7205.5	6434.8	5631.9	5118.7	5083.1	5599.7	6568.6	6660.1
35°	8545.3	8533.4	8384.4	8052.4	7351.1	6641.4	5916.5	5676.0	6160.4	7259.7	7202.1
37.5°	9090.7	9070.3	8984.0	8790.9	8309.8	7725.5	6729.5	6284.0	6765.1	7920.2	7664.5
40°	10095.1	9935.9	9639.5	9493.8	9278.7	8638.4	7374.8	6851.5	7391.8	8550.3	8064.2
42.5°	11319.7	11060.6	10508.4	10308.5	10278.0	9358.3	7815.2	7401.9	8023.6	9175.4	8457.2
45°	12283.5	12039.6	11563.6	11311.3	11423.0	10010.4	8257.3	7989.7	8674.0	9830.9	8862.0
47.5°	13311.6	12928.8	12298.7	12375.0	12618.9	10627.0	8707.9	8621.5	9387.1	10564.3	9365.1
50°	13348.9	13055.9	12779.8	13235.4	13614.8	11194.4	9271.9	9283.8	10259.4	11487.4	10034.1
52.5°	12574.8	12512.2	12950.9	13667.3	14214.4	11643.2	9913.9	9968.1	11375.6	12547.7	10769.2
55°	12303.8	12232.7	12739.1	13516.6	14295.7	12014.2	10610.0	10708.3	12725.6	13665.6	11485.7
57.5°	12964.4	12806.9	12840.8	13445.5	14097.6	12420.7	11368.8	11567.0	14192.4	14643.0	11946.4
60°	14810.7	14473.6	13833.3	13818.1	14204.3	13030.5	12246.2	12488.5	15716.9	15110.5	11766.9
62.5°	17400.5	17063.4	15864.2	15083.4	15025.8	14036.6	13323.5	13387.9	16597.6	14477.0	10671.0
65°	20203.7	19902.3	18562.4	17459.8	16927.9	15703.3	14575.2	13789.3	16309.7	12734.1	8753.6
67.5°	23606.6	23283.1	22131.3	21113.3	20601.8	18393.1	15454.3	13404.8	14482.1	9864.7	6292.5
70°	25986.4	25656.1	25202.2	26027.1	27278.8	22273.6	15567.8	11841.4	10816.7	6556.7	3787.4
72.5°	22881.7	22727.5	23555.8	27029.8	32243.3	24628.0	14072.2	8621.5	6282.3	3480.8	2191.8
73°	20964.3	20930.4	22343.0	26326.9	32278.9	24265.5	13416.7	8013.4	5388.0	3079.3	2003.8
75°	9466.7	9739.4	12835.7	20108.9	28044.4	19995.4	9443.0	4597.0	3043.8	2127.4	1512.6
77.5°	2274.8	2369.6	4016.0	9549.7	17710.5	11915.9	4278.6	2273.1	1946.2	1502.4	1104.4
80°	968.9	1001.0	1546.4	3528.2	8338.6	4798.6	1971.6	1522.7	1346.6	1048.5	774.1
82.5°	538.6	572.5	877.4	1600.6	3365.6	1636.2	1202.6	1060.3	885.9	631.8	503.1
85°	304.9	323.5	513.2	894.3	1426.2	657.2	719.9	704.6	499.7	325.2	247.3
87.5°	144.0	155.8	247.3	415.0	559.0	257.5	365.9	403.1	313.4	198.2	128.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6	5323.6
2.5°	5320.3	5350.7	5386.3	5404.9	5421.9	5442.2	5462.5	5462.5	5465.9	5467.6
5°	5283.0	5345.7	5401.6	5425.3	5430.4	5430.4	5425.3	5398.2	5374.5	5384.6
7.5°	5205.1	5296.5	5344.0	5335.5	5271.1	5196.6	5133.9	5057.7	5018.8	5012.0
10°	5093.3	5198.3	5206.8	5122.1	4962.9	4803.6	4671.5	4542.8	4481.8	4466.6
12.5°	4969.6	5066.2	5012.0	4837.5	4581.8	4349.7	4182.0	4051.6	3994.0	3978.8
15°	4869.7	4935.8	4798.6	4524.2	4202.3	3956.7	3817.8	3721.3	3680.6	3668.8
17.5°	4817.2	4830.7	4580.1	4209.1	3867.0	3662.0	3575.6	3529.9	3514.7	3506.2
20°	4842.6	4747.7	4371.7	3916.1	3592.6	3448.6	3428.3	3416.4	3413.0	3407.9
22.5°	4969.6	4722.3	4180.3	3638.3	3352.0	3289.4	3306.3	3304.6	3301.2	3297.8
25°	5196.6	4744.4	3994.0	3374.1	3150.5	3136.9	3167.4	3167.4	3153.9	3153.9
27.5°	5496.4	4790.1	3785.7	3123.4	2967.6	2969.2	2993.0	2986.2	2970.9	2960.8
30°	5862.3	4818.9	3541.8	2898.1	2796.5	2789.7	2796.5	2767.7	2722.0	2718.6
32.5°	6236.6	4783.3	3258.9	2698.2	2615.2	2600.0	2594.9	2554.3	2501.8	2486.5
35°	6575.4	4652.9	2970.9	2539.0	2442.5	2408.6	2432.3	2418.8	2371.3	2359.5
37.5°	6822.7	4410.7	2711.8	2398.4	2318.8	2310.4	2325.6	2330.7	2274.8	2262.9
40°	6988.7	4082.1	2489.9	2279.9	2295.1	2262.9	2212.1	2176.5	2159.6	2154.5
42.5°	7122.5	3739.9	2303.6	2224.0	2300.2	2207.0	2096.9	2039.3	2069.8	2083.4
45°	7276.6	3406.2	2147.7	2154.5	2274.8	2142.7	2017.3	1961.4	1973.3	1976.7
47.5°	7488.3	2999.7	1980.1	2042.7	2190.1	2098.6	1968.2	1888.6	1832.7	1807.3
50°	7781.4	2518.7	1805.6	1917.4	2107.1	2066.4	1892.0	1807.3	1704.0	1680.3
52.5°	7984.6	2069.8	1661.6	1812.4	2032.6	2002.1	1831.0	1720.9	1612.5	1592.2
55°	7874.5	1719.2	1536.3	1695.5	1934.3	1922.5	1780.2	1632.8	1548.1	1531.2
57.5°	7324.0	1497.3	1439.7	1585.4	1814.1	1854.7	1712.4	1558.3	1497.3	1485.5
60°	6273.9	1358.4	1378.8	1510.9	1715.8	1787.0	1644.7	1517.7	1477.0	1468.5
62.5°	4868.0	1265.3	1333.0	1456.7	1639.6	1739.5	1607.4	1512.6	1497.3	1487.2
65°	3487.6	1190.7	1283.9	1402.5	1570.2	1695.5	1593.9	1505.8	1509.2	1500.7
67.5°	2369.6	1124.7	1224.6	1341.5	1502.4	1656.5	1575.2	1482.1	1524.4	1514.3
70°	1658.2	1060.3	1155.2	1263.6	1417.7	1602.3	1541.4	1446.5	1443.1	1402.5
72.5°	1294.1	975.6	1060.3	1155.2	1309.3	1526.1	1473.6	1366.9	1311.0	1268.7
73°	1234.8	955.3	1036.6	1131.5	1285.6	1507.5	1455.0	1344.9	1282.2	1243.3
75°	1021.4	867.2	941.8	1026.4	1184.0	1419.4	1363.5	1244.9	1165.3	1141.6
77.5°	802.9	741.9	813.0	889.2	1043.4	1290.7	1228.0	1114.5	1070.5	1050.2
80°	594.5	614.9	677.5	745.3	904.5	1153.5	1097.6	984.1	1180.6	1131.5
82.5°	418.4	465.8	523.4	584.4	758.8	1019.7	951.9	835.0	863.8	718.2
85°	247.3	304.9	359.1	411.6	547.1	845.2	785.9	665.7	545.4	520.0
87.5°	144.0	169.4	184.6	238.8	376.0	636.9	553.9	492.9	282.9	191.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)