

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: P192342

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192342
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-04-LED-E1-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA 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: 26499 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

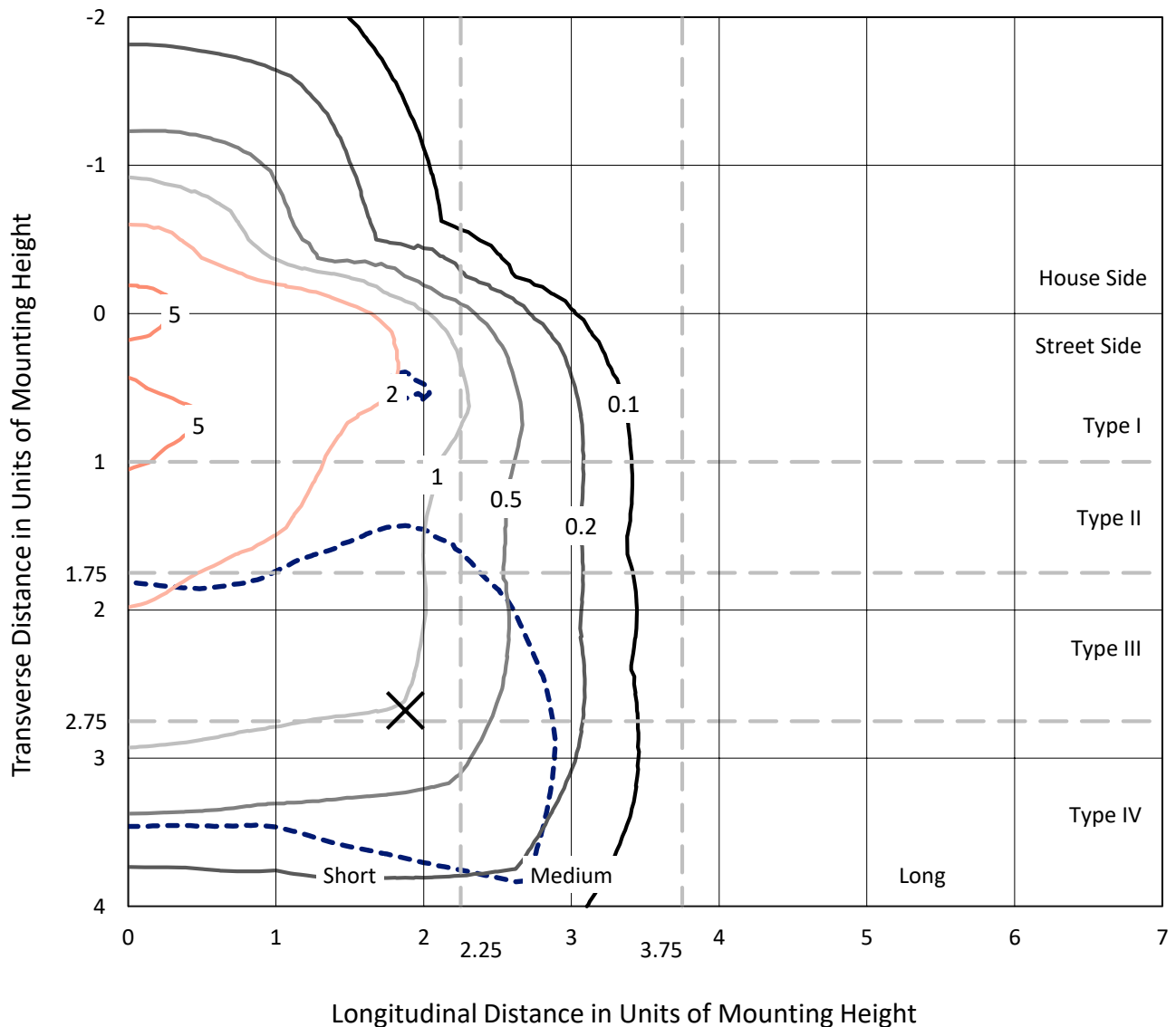


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Iso-Footcandle Lines of Horizontal Illumination

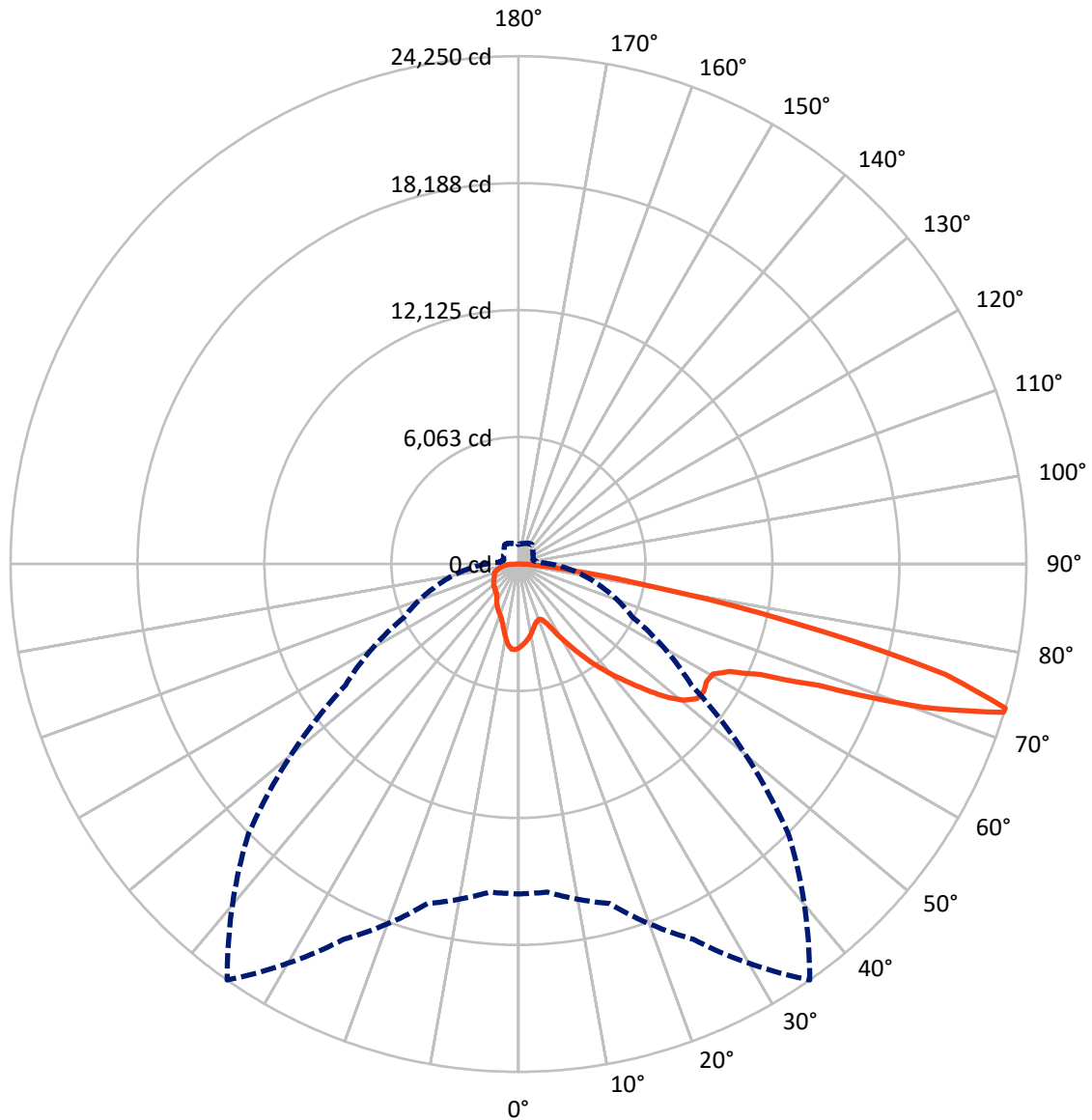
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	5054.1	0.0	5054.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	21444.9	0.0	21444.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	26499.0	0.0	26499.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	1.4
10°-20°	903.7	3.4
20°-30°	1460.9	5.5
30°-40°	2449.8	9.2
40°-50°	3776.2	14.3
50°-60°	5066.2	19.1
60°-70°	6749.2	25.5
70°-80°	5147.6	19.4
80°-90°	583.5	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°	26499.0	100.0
0°-180°	26499.0	100.0



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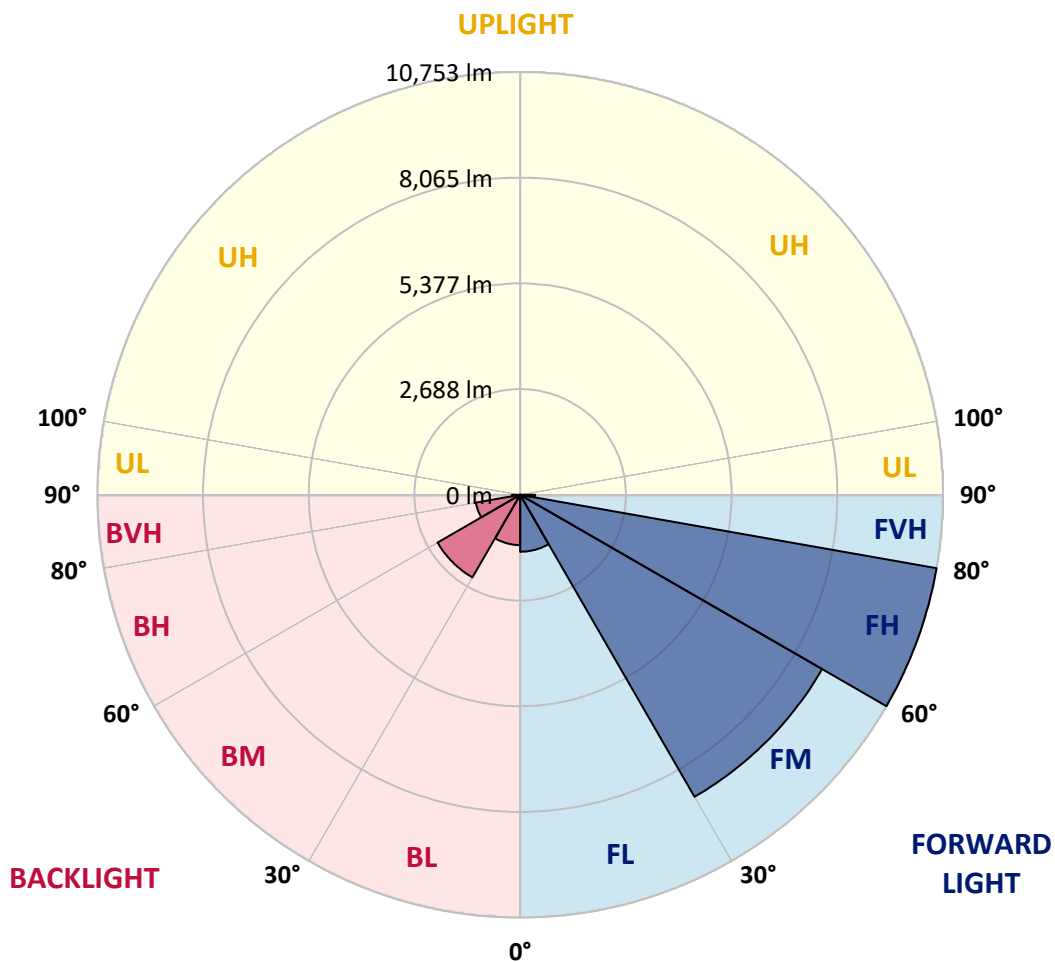
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1447.7	5.5			
FM	(30°-60°)	8866.7	33.5			
FH	(60°-80°)	10753.3	40.6			G4/12000
FVH	(80°-90°)	377.1	1.4			G3/500
BL	(0°-30°)	1278.9	4.8	B3/2500		
BM	(30°-60°)	2425.4	9.2	B2/2500		
BH	(60°-80°)	1143.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	206.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5
2.5°	3841.7	3849.4	3840.5	3851.9	3871.0	3891.4	3905.4	3925.7	3948.6	3980.4	3988.1
5°	3661.0	3672.5	3672.5	3692.8	3729.7	3762.8	3793.4	3826.5	3874.8	3929.5	3951.2
7.5°	3462.5	3468.9	3480.3	3510.9	3564.3	3611.4	3654.7	3708.1	3774.3	3846.8	3885.0
10°	3223.3	3232.2	3250.0	3293.3	3365.8	3430.7	3493.1	3566.9	3650.9	3741.2	3789.6
12.5°	3054.0	3051.5	3059.1	3090.9	3154.6	3233.5	3323.8	3418.0	3521.1	3626.7	3685.2
15°	2996.8	2982.8	2953.5	2945.9	2980.2	3059.1	3163.5	3279.3	3402.7	3530.0	3602.5
17.5°	3032.4	3008.2	2928.1	2869.5	2864.4	2924.2	3035.0	3164.8	3307.3	3462.5	3552.9
20°	3256.4	3199.1	3001.9	2865.7	2818.6	2847.9	2944.6	3082.0	3250.0	3456.2	3572.0
22.5°	3792.1	3708.1	3289.5	3036.2	2877.2	2841.5	2914.1	3060.4	3256.4	3535.1	3682.7
25°	4572.2	4452.5	3783.2	3461.2	3132.9	2943.3	2959.9	3110.0	3346.7	3718.3	3896.4
27.5°	5188.1	5110.4	4428.4	4060.6	3598.7	3218.2	3108.8	3234.7	3531.2	4018.6	4200.6
30°	5554.5	5507.5	5118.1	4740.1	4192.9	3655.9	3393.8	3468.9	3820.1	4434.7	4584.9
32.5°	5979.6	5951.6	5760.7	5413.3	4834.3	4231.1	3845.5	3818.8	4206.9	4934.8	5003.5
35°	6419.9	6410.9	6299.0	6049.5	5522.7	4989.5	4444.9	4264.2	4628.1	5454.0	5410.7
37.5°	6829.6	6814.3	6749.4	6604.4	6243.0	5804.0	5055.7	4721.0	5082.4	5950.3	5758.1
40°	7584.2	7464.6	7241.9	7132.5	6970.9	6489.8	5540.5	5147.3	5553.3	6423.7	6058.5
42.5°	8504.2	8309.5	7894.7	7744.5	7721.6	7030.7	5871.4	5560.9	6027.9	6893.2	6353.7
45°	9228.3	9045.1	8687.5	8497.9	8581.9	7520.6	6203.5	6002.5	6516.6	7385.7	6657.8
47.5°	10000.7	9713.1	9239.7	9297.0	9480.3	7983.8	6542.0	6477.1	7052.3	7936.7	7035.7
50°	10028.7	9808.6	9601.1	9943.5	10228.5	8410.1	6965.8	6974.7	7707.6	8630.2	7538.4
52.5°	9447.2	9400.1	9729.7	10267.9	10679.0	8747.3	7448.0	7488.8	8546.2	9426.8	8090.7
55°	9243.6	9190.1	9570.6	10154.7	10740.0	9026.0	7971.0	8044.9	9560.4	10266.7	8628.9
57.5°	9739.8	9621.5	9647.0	10101.2	10591.2	9331.4	8541.1	8690.0	10662.4	11000.9	8975.1
60°	11126.9	10873.7	10392.6	10381.2	10671.3	9789.5	9200.3	9382.3	11807.7	11352.1	8840.2
62.5°	13072.6	12819.3	11918.4	11331.8	11288.5	10545.4	10009.6	10058.0	12469.4	10876.2	8016.9
65°	15178.6	14952.1	13945.5	13117.1	12717.5	11797.5	10950.0	10359.6	12253.1	9566.8	6576.4
67.5°	17735.1	17492.0	16626.7	15861.9	15477.6	13818.3	11610.4	10070.7	10880.0	7411.1	4727.4
70°	19523.0	19274.8	18933.8	19553.5	20493.9	16733.6	11695.7	8896.2	8126.3	4925.9	2845.3
72.5°	17190.4	17074.6	17696.9	20306.8	24223.6	18502.4	10572.1	6477.1	4719.8	2615.0	1646.6
73°	15749.9	15724.5	16785.8	19778.7	24250.4	18230.1	10079.6	6020.3	4047.9	2313.4	1505.4
75°	7112.1	7317.0	9643.1	15107.3	21069.1	15022.1	7094.3	3453.6	2286.7	1598.3	1136.4
77.5°	1709.0	1780.3	3017.1	7174.5	13305.4	8952.2	3214.4	1707.7	1462.1	1128.7	829.7
80°	727.9	752.1	1161.8	2650.7	6264.6	3605.0	1481.2	1144.0	1011.7	787.7	581.5
82.5°	404.7	430.1	659.2	1202.5	2528.5	1229.3	903.5	796.6	665.5	474.6	377.9
85°	229.1	243.1	385.6	671.9	1071.5	493.7	540.8	529.4	375.4	244.3	185.8
87.5°	108.2	117.1	185.8	311.8	419.9	193.4	274.9	302.9	235.4	148.9	96.7
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°	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5
2.5°	3997.0	4019.9	4046.6	4060.6	4073.3	4088.6	4103.9	4103.9	4106.4	4107.7
5°	3969.0	4016.1	4058.1	4075.9	4079.7	4079.7	4075.9	4055.5	4037.7	4045.3
7.5°	3910.4	3979.2	4014.8	4008.4	3960.1	3904.1	3857.0	3799.7	3770.5	3765.4
10°	3826.5	3905.4	3911.7	3848.1	3728.5	3608.9	3509.6	3412.9	3367.1	3355.6
12.5°	3733.6	3806.1	3765.4	3634.3	3442.2	3267.8	3141.8	3043.9	3000.6	2989.1
15°	3658.5	3708.1	3605.0	3398.9	3157.1	2972.6	2868.3	2795.7	2765.2	2756.3
17.5°	3619.0	3629.2	3440.9	3162.2	2905.2	2751.2	2686.3	2651.9	2640.5	2634.1
20°	3638.1	3566.9	3284.4	2942.1	2699.0	2590.8	2575.6	2566.7	2564.1	2560.3
22.5°	3733.6	3547.8	3140.6	2733.4	2518.3	2471.2	2484.0	2482.7	2480.1	2477.6
25°	3904.1	3564.3	3000.6	2534.9	2366.9	2356.7	2379.6	2379.6	2369.4	2369.4
27.5°	4129.3	3598.7	2844.1	2346.5	2229.5	2230.7	2248.5	2243.4	2232.0	2224.4
30°	4404.2	3620.3	2660.8	2177.3	2100.9	2095.8	2100.9	2079.3	2044.9	2042.4
32.5°	4685.4	3593.6	2448.3	2027.1	1964.8	1953.3	1949.5	1919.0	1879.5	1868.1
35°	4939.9	3495.6	2232.0	1907.5	1835.0	1809.5	1827.3	1817.2	1781.5	1772.6
37.5°	5125.7	3313.6	2037.3	1801.9	1742.1	1735.7	1747.2	1751.0	1709.0	1700.1
40°	5250.4	3066.8	1870.6	1712.8	1724.3	1700.1	1661.9	1635.2	1622.5	1618.6
42.5°	5350.9	2809.7	1730.6	1670.8	1728.1	1658.1	1575.4	1532.1	1555.0	1565.2
45°	5466.7	2559.0	1613.6	1618.6	1709.0	1609.7	1515.6	1473.6	1482.5	1485.0
47.5°	5625.8	2253.6	1487.6	1534.7	1645.4	1576.6	1478.7	1418.9	1376.9	1357.8
50°	5845.9	1892.2	1356.5	1440.5	1583.0	1552.5	1421.4	1357.8	1280.2	1262.3
52.5°	5998.6	1555.0	1248.3	1361.6	1527.0	1504.1	1375.6	1292.9	1211.4	1196.2
55°	5915.9	1291.6	1154.2	1273.8	1453.2	1444.3	1337.4	1226.7	1163.1	1150.4
57.5°	5502.4	1124.9	1081.6	1191.1	1362.9	1393.4	1286.5	1170.7	1124.9	1116.0
60°	4713.4	1020.6	1035.8	1135.1	1289.1	1342.5	1235.6	1140.2	1109.6	1103.3
62.5°	3657.2	950.6	1001.5	1094.4	1231.8	1306.9	1207.6	1136.4	1124.9	1117.3
65°	2620.1	894.6	964.6	1053.6	1179.6	1273.8	1197.4	1131.3	1133.8	1127.5
67.5°	1780.3	845.0	920.0	1007.8	1128.7	1244.5	1183.4	1113.5	1145.3	1137.6
70°	1245.8	796.6	867.9	949.3	1065.1	1203.8	1158.0	1086.7	1084.2	1053.6
72.5°	972.2	733.0	796.6	867.9	983.7	1146.5	1107.1	1026.9	984.9	953.1
73°	927.7	717.7	778.8	850.0	965.8	1132.5	1093.1	1010.4	963.3	934.0
75°	767.3	651.5	707.5	771.1	889.5	1066.4	1024.4	935.3	875.5	857.7
77.5°	603.2	557.4	610.8	668.1	783.9	969.7	922.6	837.3	804.2	789.0
80°	446.7	461.9	509.0	559.9	679.5	866.6	824.6	739.3	886.9	850.0
82.5°	314.3	349.9	393.2	439.0	570.1	766.1	715.2	627.4	649.0	539.5
85°	185.8	229.1	269.8	309.2	411.0	635.0	590.4	500.1	409.8	390.7
87.5°	108.2	127.3	138.7	179.4	282.5	478.5	416.1	370.3	212.5	143.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)