

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: P300383

Luminaire Tested: **GLNA-AF-05-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300383
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: GLNA-AF-05-LED-E1-T4FT-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24097.5 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

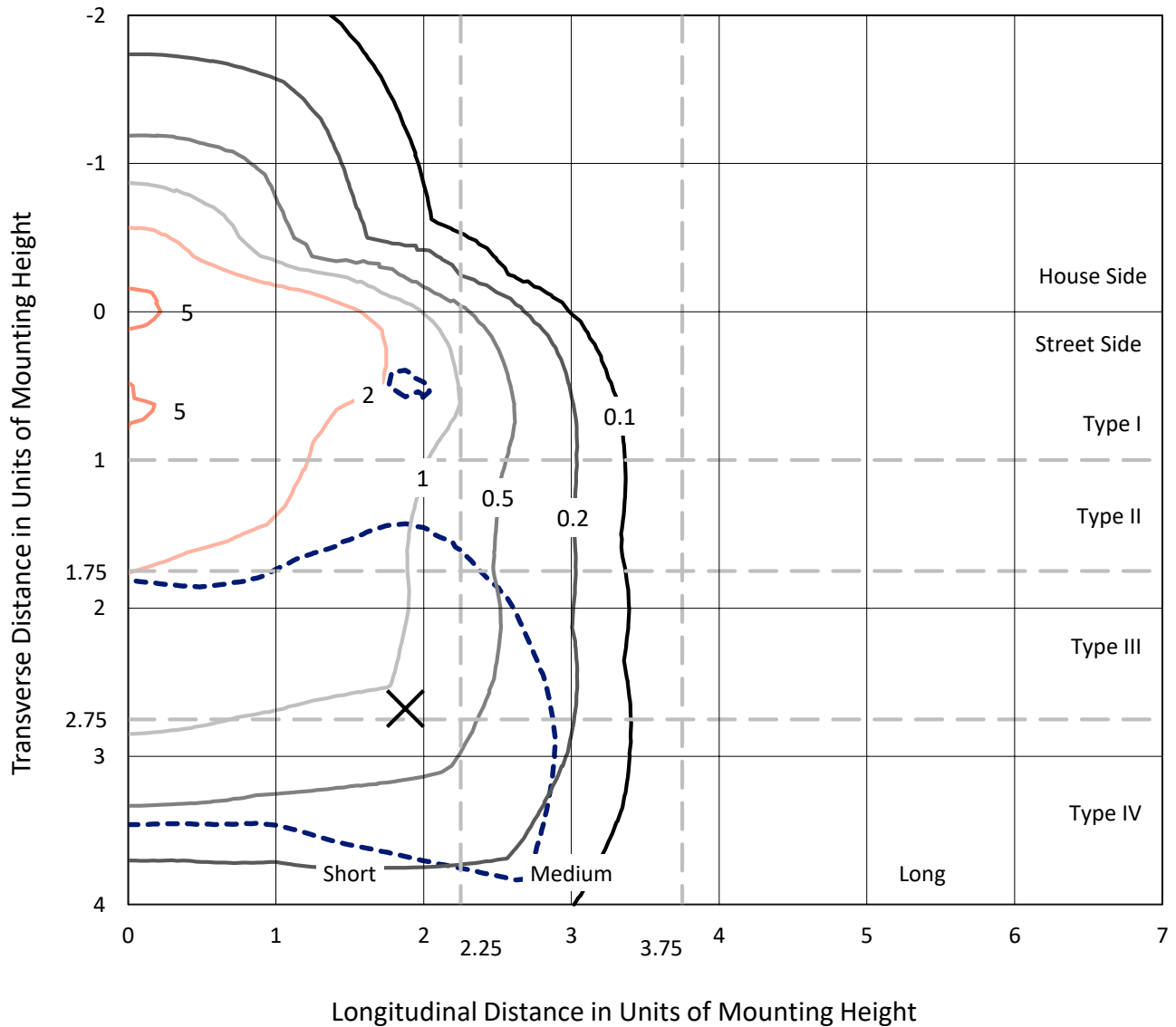
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

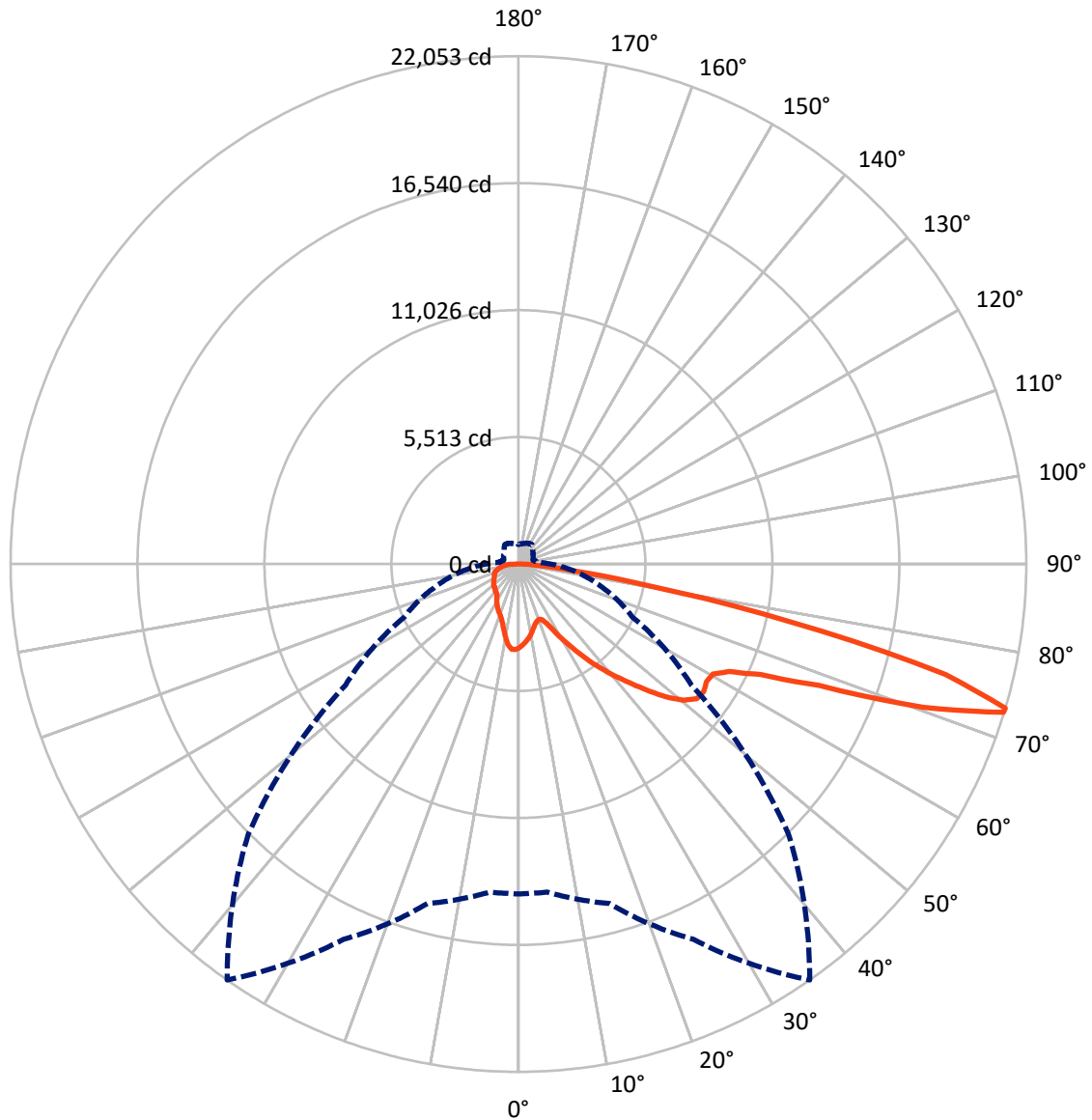
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	4596.1	0.0	4596.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19501.4	0.0	19501.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	24097.5	0.0	24097.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	1.4
10°-20°	821.8	3.4
20°-30°	1328.5	5.5
30°-40°	2227.7	9.2
40°-50°	3434.0	14.3
50°-60°	4607.0	19.1
60°-70°	6137.5	25.5
70°-80°	4681.1	19.4
80°-90°	530.6	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°	24097.5	100.0
0°-180°	24097.5	100.0



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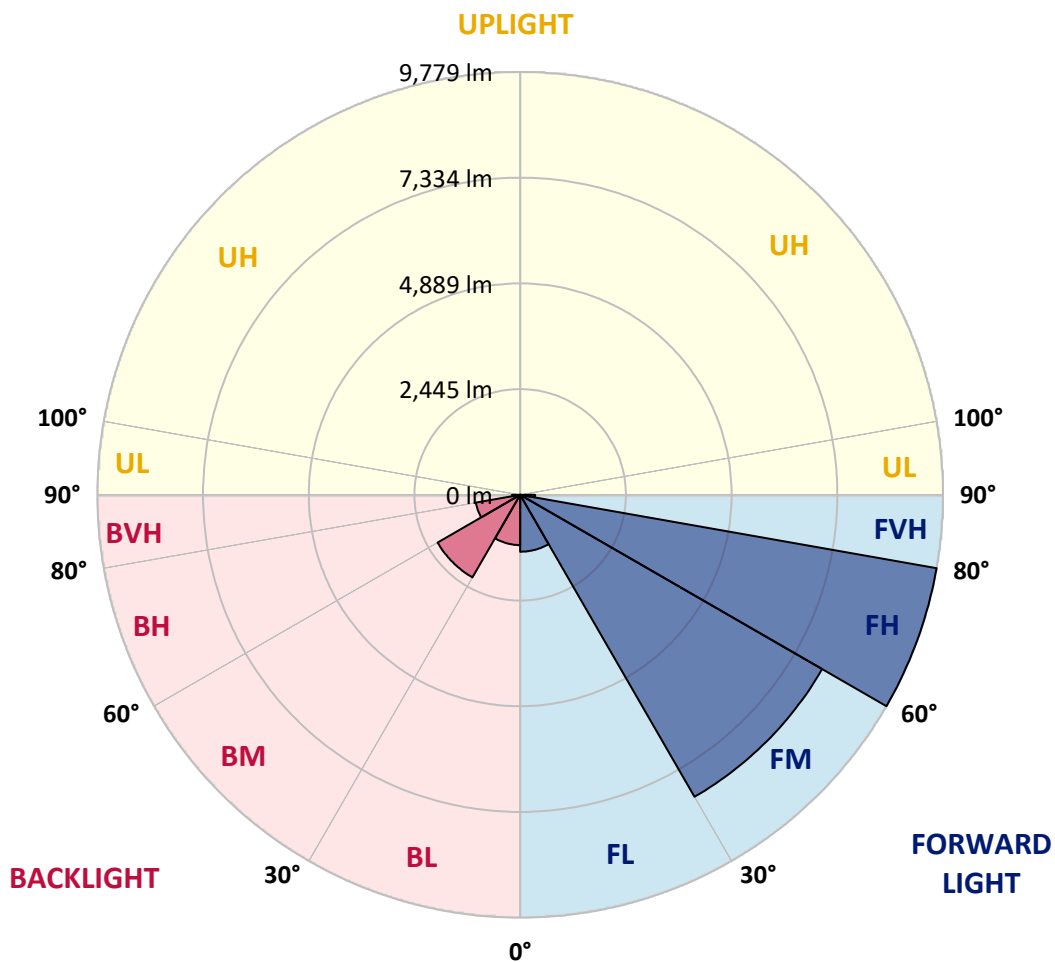
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.5	5.5			
FM	(30°-60°)	8063.2	33.5			
FH	(60°-80°)	9778.8	40.6			G4/12000
FVH	(80°-90°)	343.0	1.4			G3/500
BL	(0°-30°)	1163.0	4.8	B3/2500		
BM	(30°-60°)	2205.6	9.2	B2/2500		
BH	(60°-80°)	1039.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	187.6	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°	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1
2.5°	3493.6	3500.5	3492.4	3502.8	3520.2	3538.7	3551.4	3569.9	3590.8	3619.7	3626.6
5°	3329.2	3339.7	3339.7	3358.2	3391.7	3421.8	3449.6	3479.7	3523.7	3573.4	3593.1
7.5°	3148.7	3154.5	3164.9	3192.7	3241.3	3284.1	3323.5	3372.1	3432.2	3498.2	3532.9
10°	2931.2	2939.3	2955.5	2994.8	3060.8	3119.8	3176.5	3243.6	3320.0	3402.2	3446.1
12.5°	2777.3	2775.0	2781.9	2810.8	2868.7	2940.4	3022.6	3108.2	3202.0	3298.0	3351.2
15°	2725.2	2712.5	2685.8	2678.9	2710.1	2781.9	2876.8	2982.1	3094.3	3210.1	3276.0
17.5°	2757.6	2735.6	2662.7	2609.5	2604.8	2659.2	2759.9	2877.9	3007.5	3148.7	3230.9
20°	2961.3	2909.2	2729.8	2606.0	2563.2	2589.8	2677.7	2802.7	2955.5	3142.9	3248.2
22.5°	3448.4	3372.1	2991.3	2761.1	2616.4	2584.0	2650.0	2783.1	2961.3	3214.7	3348.9
25°	4157.8	4049.0	3440.3	3147.6	2849.0	2676.6	2691.6	2828.2	3043.4	3381.3	3543.3
27.5°	4717.9	4647.3	4027.0	3692.6	3272.5	2926.5	2827.0	2941.6	3211.2	3654.4	3819.9
30°	5051.2	5008.3	4654.2	4310.5	3813.0	3324.6	3086.2	3154.5	3473.9	4032.8	4169.4
32.5°	5437.7	5412.2	5238.6	4922.7	4396.2	3847.7	3497.0	3472.7	3825.7	4487.6	4550.1
35°	5838.0	5829.9	5728.1	5501.3	5022.2	4537.4	4042.1	3877.8	4208.7	4959.7	4920.4
37.5°	6210.7	6196.8	6137.8	6005.8	5677.2	5278.0	4597.5	4293.2	4621.8	5411.0	5236.3
40°	6896.9	6788.1	6585.6	6486.1	6339.1	5901.7	5038.4	4680.9	5050.0	5841.5	5509.4
42.5°	7733.5	7556.5	7179.2	7042.7	7021.9	6393.5	5339.3	5056.9	5481.6	6268.5	5777.9
45°	8392.0	8225.3	7900.2	7727.7	7804.1	6839.0	5641.3	5458.5	5926.0	6716.4	6054.4
47.5°	9094.4	8832.9	8402.4	8454.5	8621.1	7260.2	5949.1	5890.1	6413.2	7217.4	6398.1
50°	9119.8	8919.7	8731.0	9042.3	9301.5	7647.9	6334.5	6342.6	7009.1	7848.1	6855.2
52.5°	8591.0	8548.2	8847.9	9337.4	9711.2	7954.6	6773.1	6810.1	7771.7	8572.5	7357.4
55°	8405.9	8357.3	8703.3	9234.4	9766.7	8208.0	7248.7	7315.8	8694.0	9336.2	7846.9
57.5°	8857.2	8749.5	8772.7	9185.8	9631.3	8485.7	7767.1	7902.5	9696.1	10003.9	8161.7
60°	10118.5	9888.2	9450.8	9440.4	9704.2	8902.3	8366.5	8532.0	10737.6	10323.3	8039.0
62.5°	11887.9	11657.6	10838.3	10304.8	10265.5	9589.7	9102.5	9146.5	11339.3	9890.5	7290.3
65°	13803.0	13597.0	12681.7	11928.4	11565.0	10728.3	9957.7	9420.7	11142.6	8699.8	5980.4
67.5°	16127.8	15906.8	15119.9	14424.4	14075.0	12566.0	10558.2	9158.0	9894.0	6739.5	4299.0
70°	17753.7	17528.0	17217.9	17781.4	18636.6	15217.1	10635.8	8089.9	7389.8	4479.5	2587.5
72.5°	15632.5	15527.2	16093.1	18466.5	22028.4	16825.6	9614.0	5890.1	4292.0	2378.0	1497.4
73°	14322.6	14299.4	15264.5	17986.3	22052.7	16578.0	9166.1	5474.7	3681.0	2103.8	1369.0
75°	6467.6	6653.9	8769.2	13738.2	19159.7	13660.7	6451.4	3140.6	2079.5	1453.4	1033.4
77.5°	1554.1	1618.9	2743.7	6524.3	12099.6	8140.9	2923.1	1553.0	1329.6	1026.4	754.5
80°	661.9	683.9	1056.5	2410.4	5696.9	3278.3	1347.0	1040.3	920.0	716.3	528.8
82.5°	368.0	391.1	599.4	1093.5	2299.3	1117.8	821.6	724.4	605.2	431.6	343.7
85°	208.3	221.0	350.6	611.0	974.4	449.0	491.8	481.4	341.4	222.2	169.0
87.5°	98.4	106.5	169.0	283.5	381.9	175.9	250.0	275.4	214.1	135.4	87.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1	3637.1
2.5°	3634.7	3655.6	3679.9	3692.6	3704.2	3718.1	3732.0	3732.0	3734.3	3735.4
5°	3609.3	3652.1	3690.3	3706.5	3710.0	3710.0	3706.5	3688.0	3671.8	3678.7
7.5°	3556.1	3618.5	3650.9	3645.2	3601.2	3550.3	3507.5	3455.4	3428.8	3424.1
10°	3479.7	3551.4	3557.2	3499.4	3390.6	3281.8	3191.5	3103.6	3061.9	3051.5
12.5°	3395.2	3461.2	3424.1	3304.9	3130.2	2971.7	2857.1	2768.0	2728.7	2718.2
15°	3326.9	3372.1	3278.3	3090.9	2871.0	2703.2	2608.3	2542.4	2514.6	2506.5
17.5°	3291.1	3300.3	3129.1	2875.6	2641.9	2501.9	2442.8	2411.6	2401.2	2395.4
20°	3308.4	3243.6	2986.7	2675.4	2454.4	2356.0	2342.2	2334.1	2331.7	2328.3
22.5°	3395.2	3226.3	2856.0	2485.7	2290.1	2247.3	2258.8	2257.7	2255.4	2253.1
25°	3550.3	3241.3	2728.7	2305.1	2152.4	2143.1	2164.0	2164.0	2154.7	2154.7
27.5°	3755.1	3272.5	2586.3	2133.9	2027.4	2028.6	2044.8	2040.1	2029.7	2022.8
30°	4005.0	3292.2	2419.7	1980.0	1910.5	1905.9	1910.5	1890.9	1859.6	1857.3
32.5°	4260.8	3267.9	2226.4	1843.4	1786.7	1776.3	1772.8	1745.0	1709.2	1698.8
35°	4492.2	3178.8	2029.7	1734.6	1668.7	1645.5	1661.7	1652.5	1620.1	1612.0
37.5°	4661.2	3013.3	1852.7	1638.6	1584.2	1578.4	1588.8	1592.3	1554.1	1546.0
40°	4774.6	2788.8	1701.1	1557.6	1568.0	1546.0	1511.3	1487.0	1475.4	1472.0
42.5°	4866.0	2555.1	1573.8	1519.4	1571.5	1507.8	1432.6	1393.3	1414.1	1423.3
45°	4971.3	2327.1	1467.3	1472.0	1554.1	1463.9	1378.2	1340.0	1348.1	1350.4
47.5°	5116.0	2049.4	1352.8	1395.6	1496.3	1433.8	1344.7	1290.3	1252.1	1234.7
50°	5316.2	1720.7	1233.6	1309.9	1439.5	1411.8	1292.6	1234.7	1164.1	1147.9
52.5°	5455.0	1414.1	1135.2	1238.2	1388.6	1367.8	1250.9	1175.7	1101.6	1087.8
55°	5379.8	1174.6	1049.6	1158.4	1321.5	1313.4	1216.2	1115.5	1057.7	1046.1
57.5°	5003.7	1023.0	983.6	1083.1	1239.4	1267.1	1169.9	1064.6	1023.0	1014.9
60°	4286.2	928.1	942.0	1032.2	1172.2	1220.8	1123.6	1036.8	1009.1	1003.3
62.5°	3325.8	864.4	910.7	995.2	1120.2	1188.4	1098.2	1033.4	1023.0	1016.0
65°	2382.7	813.5	877.2	958.2	1072.7	1158.4	1088.9	1028.7	1031.1	1025.3
67.5°	1618.9	768.4	836.7	916.5	1026.4	1131.7	1076.2	1012.5	1041.5	1034.5
70°	1132.9	724.4	789.2	863.3	968.6	1094.7	1053.0	988.2	985.9	958.2
72.5°	884.1	666.5	724.4	789.2	894.5	1042.6	1006.8	933.9	895.7	866.7
73°	843.6	652.7	708.2	773.0	878.3	1029.9	994.0	918.8	876.0	849.4
75°	697.8	592.5	643.4	701.3	808.9	969.7	931.5	850.5	796.1	779.9
77.5°	548.5	506.9	555.5	607.5	712.8	881.8	839.0	761.4	731.3	717.5
80°	406.2	420.1	462.9	509.2	617.9	788.0	749.9	672.3	806.6	773.0
82.5°	285.8	318.2	357.6	399.2	518.4	696.6	650.3	570.5	590.2	490.7
85°	169.0	208.3	245.3	281.2	373.8	577.4	536.9	454.8	372.6	355.3
87.5°	98.4	115.7	126.1	163.2	256.9	435.1	378.4	336.7	193.3	130.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)