

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: P300351

Luminaire Tested: **GLNA-AF-10-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300351
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-10-LED-E1-T4FT-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57137.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

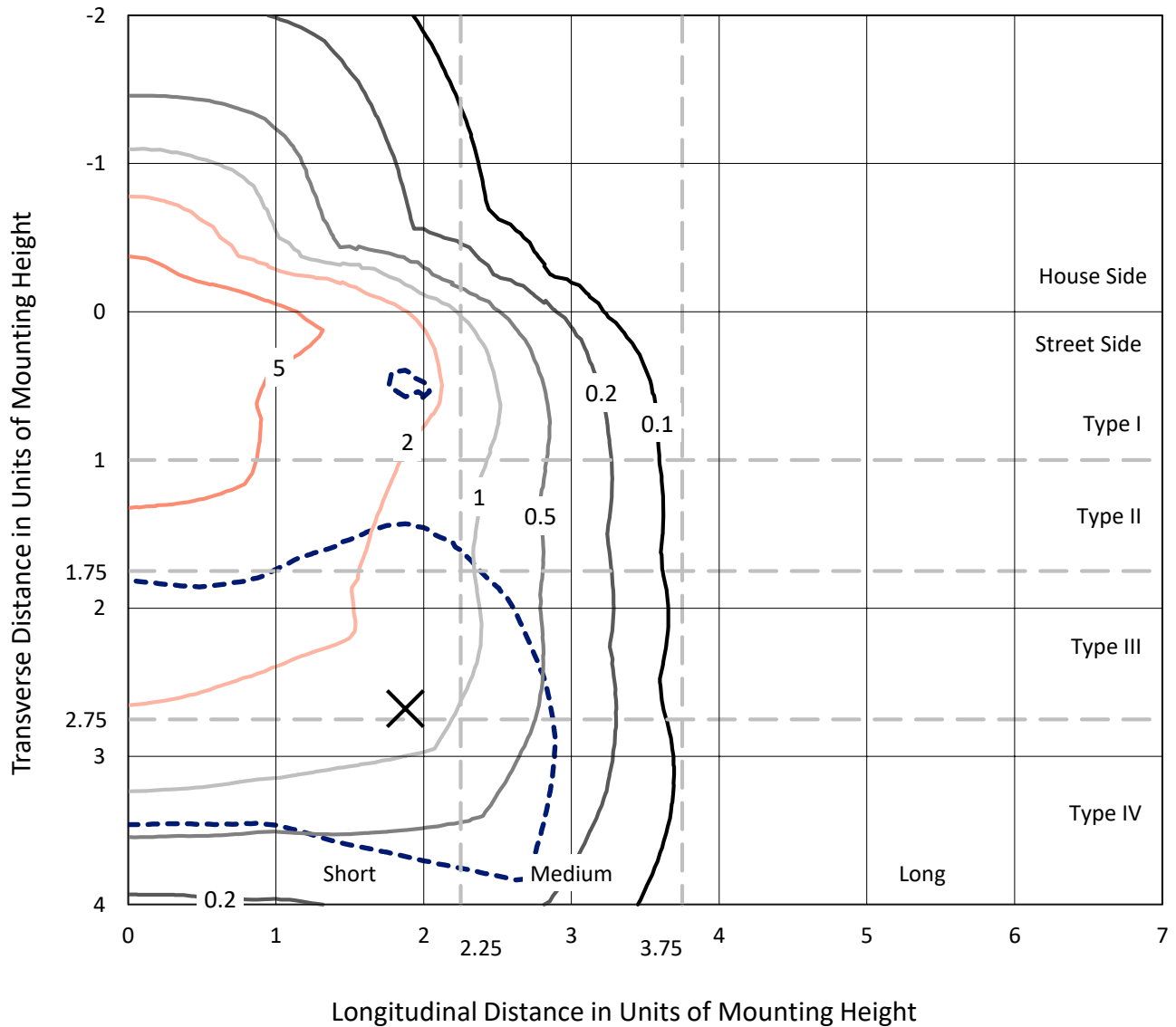
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

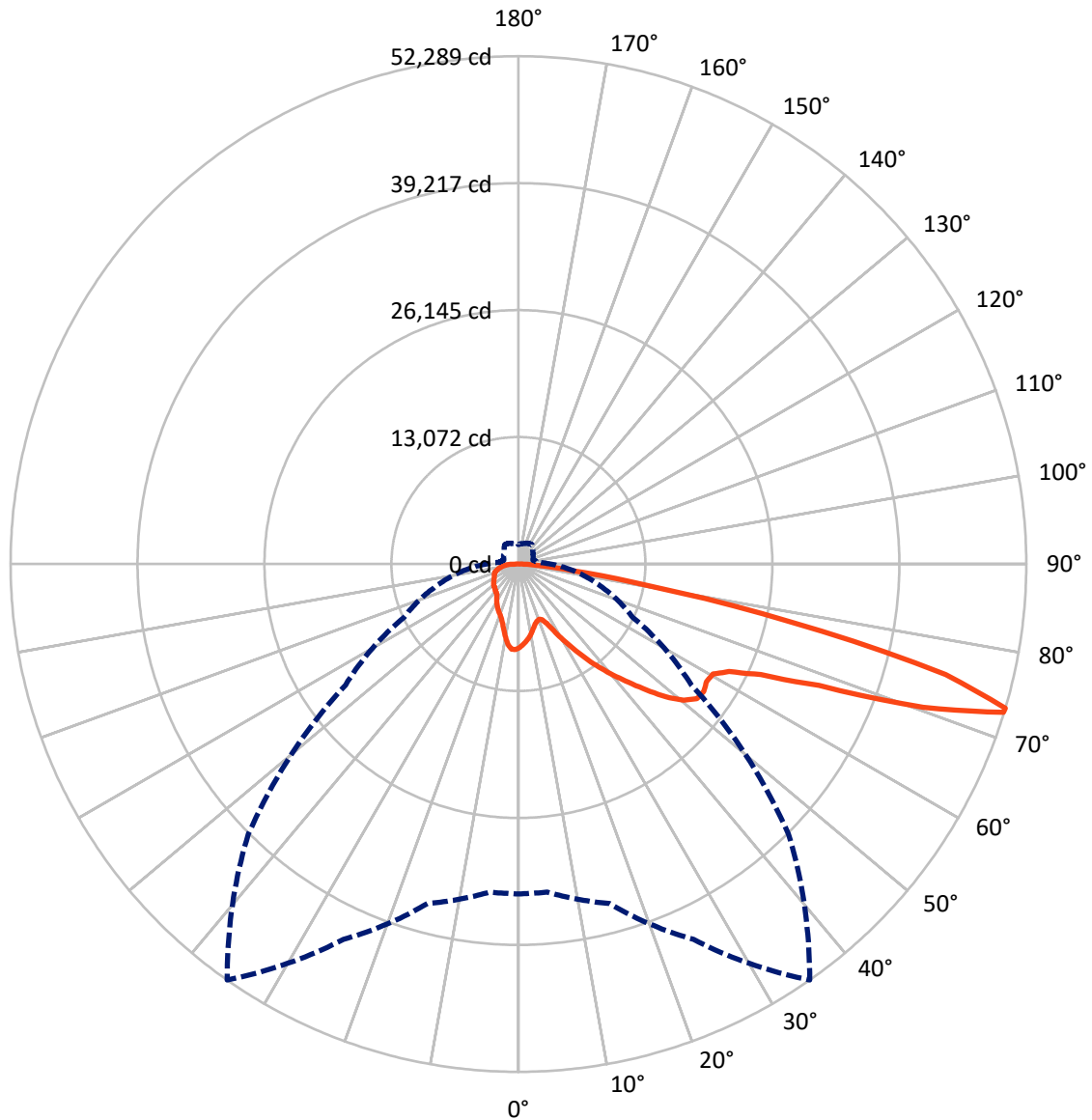
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	10897.8	0.0	10897.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	46240.1	0.0	46240.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	57137.8	0.0	57137.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.7	1.4
10°-20°	1948.5	3.4
20°-30°	3150.1	5.5
30°-40°	5282.2	9.2
40°-50°	8142.3	14.3
50°-60°	10923.8	19.1
60°-70°	14552.7	25.5
70°-80°	11099.3	19.4
80°-90°	1258.1	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°	57137.8	100.0
0°-180°	57137.8	100.0



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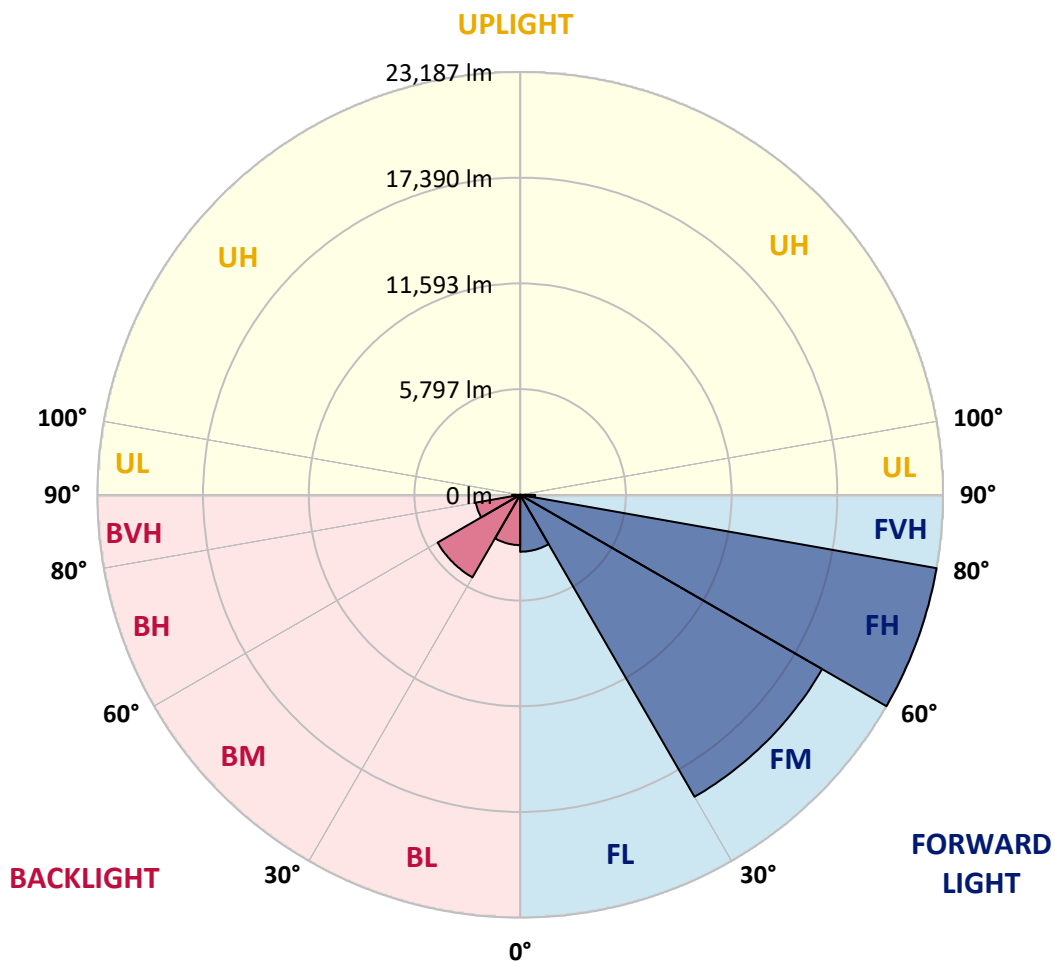
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3121.7	5.5			
FM	(30°-60°)	19118.7	33.5			
FH	(60°-80°)	23186.5	40.6			G5
FVH	(80°-90°)	813.2	1.4			G5
BL	(0°-30°)	2757.7	4.8	B4/5000		
BM	(30°-60°)	5229.7	9.2	B4/8500		
BH	(60°-80°)	2465.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	444.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9
2.5°	8283.6	8300.1	8280.9	8305.6	8346.7	8390.6	8420.8	8464.7	8514.1	8582.7	8599.2
5°	7894.0	7918.7	7918.7	7962.6	8042.2	8113.5	8179.4	8250.7	8355.0	8473.0	8519.6
7.5°	7466.0	7479.7	7504.4	7570.2	7685.5	7787.0	7880.3	7995.5	8138.2	8294.6	8376.9
10°	6950.1	6969.3	7007.8	7101.0	7257.4	7397.4	7531.8	7691.0	7872.1	8066.9	8171.1
12.5°	6585.2	6579.7	6596.2	6664.8	6802.0	6972.1	7166.9	7369.9	7592.2	7819.9	7946.1
15°	6461.7	6431.5	6368.4	6352.0	6426.1	6596.2	6821.2	7070.9	7337.0	7611.4	7767.8
17.5°	6538.6	6486.4	6313.6	6187.3	6176.4	6305.3	6544.0	6823.9	7131.2	7466.0	7660.8
20°	7021.5	6898.0	6472.7	6179.1	6077.6	6140.7	6349.2	6645.6	7007.8	7452.3	7701.9
22.5°	8176.6	7995.5	7092.8	6546.8	6203.8	6127.0	6283.4	6598.9	7021.5	7622.4	7940.7
25°	9858.6	9600.7	8157.4	7463.2	6755.3	6346.5	6382.2	6705.9	7216.3	8017.5	8401.6
27.5°	11186.6	11019.2	9548.5	8755.6	7759.6	6939.2	6703.2	6974.8	7614.1	8665.0	9057.4
30°	11976.8	11875.3	11035.7	10220.8	9040.9	7883.0	7317.8	7479.7	8237.0	9562.3	9886.0
32.5°	12893.3	12832.9	12421.3	11672.3	10423.8	9123.2	8291.9	8234.2	9071.1	10640.6	10788.8
35°	13842.6	13823.4	13582.0	13044.2	11908.2	10758.6	9584.2	9194.6	9979.3	11760.1	11666.8
37.5°	14726.2	14693.2	14553.3	14240.5	13461.3	12514.6	10901.3	10179.6	10958.9	12830.2	12415.8
40°	16353.3	16095.3	15615.2	15379.2	15030.7	13993.6	11946.7	11098.8	11974.1	13850.9	13063.4
42.5°	18337.0	17917.2	17022.7	16699.0	16649.6	15159.7	12660.1	11990.6	12997.5	14863.4	13700.0
45°	19898.3	19503.2	18732.2	18323.3	18504.4	16216.1	13376.2	12942.7	14051.2	15925.2	14355.7
47.5°	21563.8	20943.7	19923.0	20046.5	20441.6	17214.8	14106.1	13966.1	15206.3	17113.3	15170.7
50°	21624.2	21149.5	20702.2	21440.3	22054.9	18134.0	15019.7	15039.0	16619.4	18608.7	16254.5
52.5°	20370.2	20268.7	20979.4	22140.0	23026.3	18861.1	16059.7	16147.5	18427.6	20326.3	17445.3
55°	19931.2	19816.0	20636.4	21895.8	23158.0	19462.0	17187.4	17346.5	20614.4	22137.3	18605.9
57.5°	21001.3	20746.1	20801.0	21780.6	22836.9	20120.5	18416.6	18737.6	22990.6	23720.4	19352.3
60°	23992.1	23446.1	22408.9	22384.2	23009.8	21108.3	19837.9	20230.3	25460.0	24477.7	19061.4
62.5°	28187.4	27641.4	25698.8	24433.8	24340.6	22738.2	21583.0	21687.3	26886.8	23451.6	17286.2
65°	32728.5	32240.1	30069.7	28283.4	27421.9	25438.1	23610.7	22337.6	26420.4	20628.1	14180.1
67.5°	38240.8	37716.7	35850.9	34201.9	33373.3	29795.3	25034.7	21714.7	23459.8	15980.1	10193.3
70°	42095.9	41560.9	40825.5	42161.8	44189.5	36081.4	25218.6	19182.1	17522.1	10621.4	6135.2
72.5°	37066.5	36816.8	38158.5	43786.1	52231.6	39895.3	22795.8	13966.1	10176.9	5638.6	3550.5
73°	33960.4	33905.6	36193.9	42647.4	52289.2	39308.2	21733.9	12981.1	8728.1	4988.3	3246.0
75°	15335.3	15777.0	20792.8	32574.8	45429.7	32391.0	15296.9	7446.8	4930.7	3446.3	2450.2
77.5°	3685.0	3838.6	6505.6	15469.7	28689.5	19302.9	6930.9	3682.2	3152.7	2433.8	1789.0
80°	1569.5	1621.6	2505.1	5715.4	13507.9	7773.3	3193.8	2466.7	2181.3	1698.4	1253.9
82.5°	872.5	927.4	1421.3	2592.9	5452.0	2650.5	1948.1	1717.6	1435.0	1023.5	814.9
85°	493.9	524.1	831.4	1448.7	2310.3	1064.6	1166.1	1141.4	809.4	526.8	400.6
87.5°	233.2	252.4	400.6	672.2	905.5	417.1	592.7	653.0	507.6	321.0	208.5
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°	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9	8623.9
2.5°	8618.4	8667.8	8725.4	8755.6	8783.0	8815.9	8848.9	8848.9	8854.4	8857.1
5°	8558.0	8659.5	8750.1	8788.5	8796.7	8796.7	8788.5	8744.6	8706.2	8722.6
7.5°	8431.8	8580.0	8656.8	8643.1	8538.8	8418.1	8316.6	8193.1	8130.0	8119.0
10°	8250.7	8420.8	8434.5	8297.4	8039.4	7781.5	7567.5	7359.0	7260.2	7235.5
12.5°	8050.4	8206.8	8119.0	7836.4	7422.1	7046.2	6774.5	6563.3	6470.0	6445.3
15°	7888.5	7995.5	7773.3	7328.8	6807.5	6409.6	6184.6	6028.2	5962.4	5943.1
17.5°	7803.5	7825.4	7419.3	6818.4	6264.2	5932.2	5792.2	5718.2	5693.5	5679.7
20°	7844.6	7691.0	7081.8	6343.7	5819.7	5586.4	5553.5	5534.3	5528.8	5520.6
22.5°	8050.4	7649.8	6771.8	5893.8	5430.0	5328.5	5356.0	5353.2	5347.7	5342.2
25°	8418.1	7685.5	6470.0	5465.7	5103.5	5081.6	5131.0	5131.0	5109.0	5109.0
27.5°	8903.7	7759.6	6132.5	5059.6	4807.2	4809.9	4848.4	4837.4	4812.7	4796.2
30°	9496.4	7806.2	5737.4	4694.7	4530.1	4519.1	4530.1	4483.4	4409.3	4403.9
32.5°	10102.8	7748.6	5279.1	4370.9	4236.5	4211.8	4203.6	4137.7	4052.6	4027.9
35°	10651.6	7537.3	4812.7	4113.0	3956.6	3901.7	3940.1	3918.2	3841.4	3822.2
37.5°	11052.2	7144.9	4392.9	3885.3	3756.3	3742.6	3767.3	3775.5	3685.0	3665.8
40°	11321.1	6612.6	4033.4	3693.2	3717.9	3665.8	3583.4	3525.8	3498.4	3490.2
42.5°	11537.8	6058.4	3731.6	3602.7	3726.1	3575.2	3396.9	3303.6	3353.0	3374.9
45°	11787.5	5517.9	3479.2	3490.2	3685.0	3471.0	3267.9	3177.4	3196.6	3202.1
47.5°	12130.5	4859.3	3207.5	3309.1	3547.8	3399.6	3188.3	3059.4	2968.8	2927.7
50°	12605.2	4080.1	2924.9	3106.0	3413.3	3347.5	3064.9	2927.7	2760.3	2721.9
52.5°	12934.4	3353.0	2691.7	2935.9	3292.6	3243.2	2966.1	2787.7	2612.1	2579.2
55°	12756.1	2785.0	2488.7	2746.6	3133.5	3114.3	2883.8	2645.1	2507.9	2480.4
57.5°	11864.3	2425.5	2332.3	2568.2	2938.6	3004.5	2774.0	2524.3	2425.5	2406.3
60°	10163.2	2200.6	2233.5	2447.5	2779.5	2894.7	2664.3	2458.5	2392.6	2378.9
62.5°	7885.8	2049.6	2159.4	2359.7	2656.0	2817.9	2603.9	2450.2	2425.5	2409.1
65°	5649.6	1928.9	2079.8	2271.9	2543.5	2746.6	2581.9	2439.3	2444.8	2431.0
67.5°	3838.6	1821.9	1983.8	2173.1	2433.8	2683.5	2551.8	2400.9	2469.5	2453.0
70°	2686.2	1717.6	1871.3	2046.9	2296.6	2595.7	2496.9	2343.2	2337.7	2271.9
72.5°	2096.3	1580.4	1717.6	1871.3	2121.0	2472.2	2387.1	2214.3	2123.7	2055.1
73°	2000.3	1547.5	1679.2	1832.9	2082.6	2442.0	2357.0	2178.6	2077.1	2014.0
75°	1654.5	1404.8	1525.6	1662.8	1917.9	2299.3	2208.8	2016.7	1887.8	1849.3
77.5°	1300.6	1201.8	1317.0	1440.5	1690.2	2090.8	1989.3	1805.4	1734.1	1701.2
80°	963.1	996.0	1097.5	1207.3	1465.2	1868.6	1778.0	1594.2	1912.5	1832.9
82.5°	677.7	754.6	847.8	946.6	1229.2	1651.8	1542.0	1352.7	1399.4	1163.4
85°	400.6	493.9	581.7	666.8	886.3	1369.2	1273.1	1078.3	883.5	842.4
87.5°	233.2	274.4	299.1	386.9	609.1	1031.7	897.2	798.5	458.2	310.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)