

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: P302805

Luminaire Tested: **GLNA-AF-08-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-T4W-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45665.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

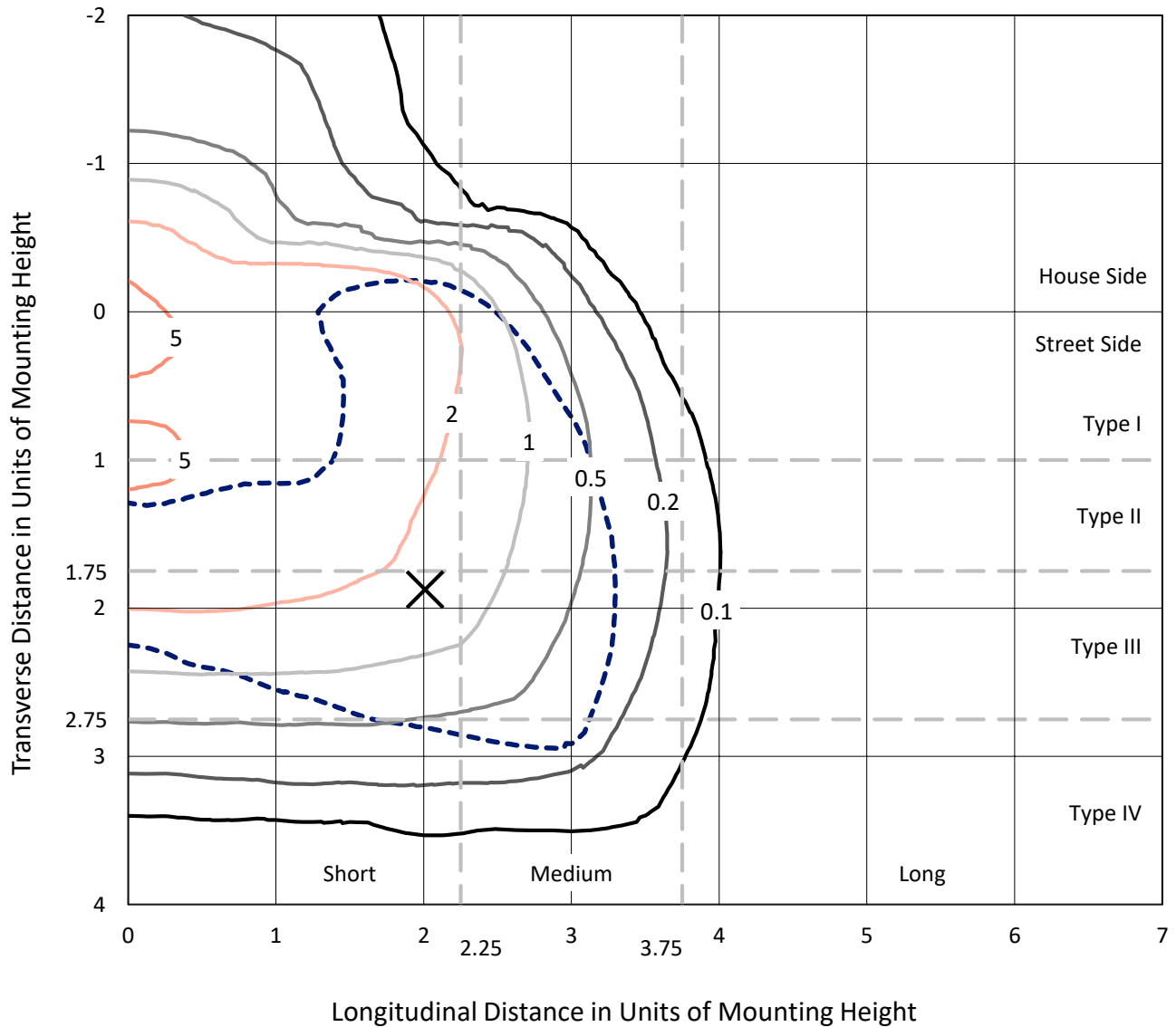
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

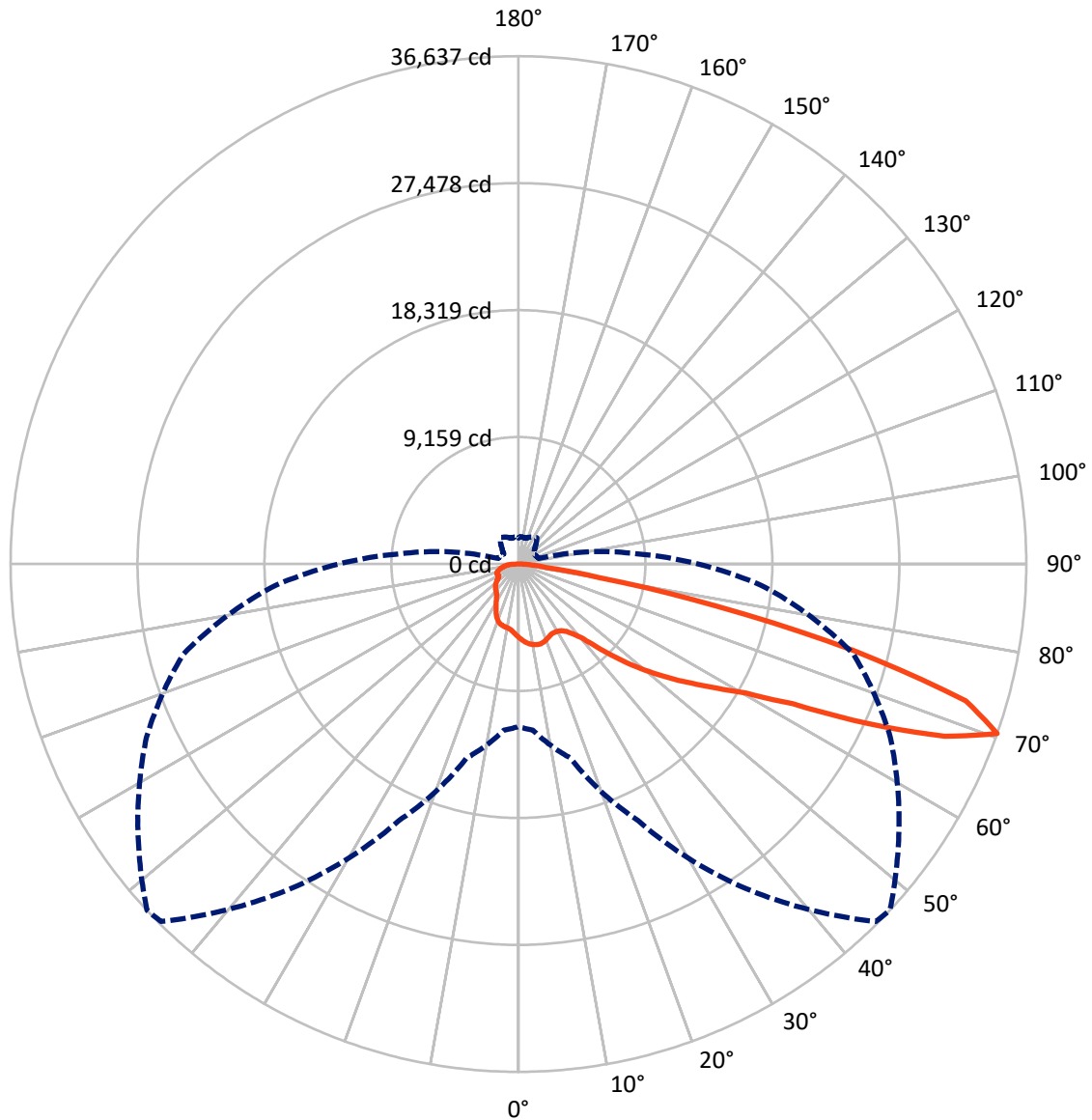
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9526.8	0.0	9526.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	36138.9	0.0	36138.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	45665.7	0.0	45665.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.7	1.1
10°-20°	1489.5	3.3
20°-30°	2199.5	4.8
30°-40°	3197.0	7.0
40°-50°	5753.4	12.6
50°-60°	9967.2	21.8
60°-70°	14226.1	31.2
70°-80°	7302.9	16.0
80°-90°	1022.4	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°	45665.7	100.0
0°-180°	45665.7	100.0



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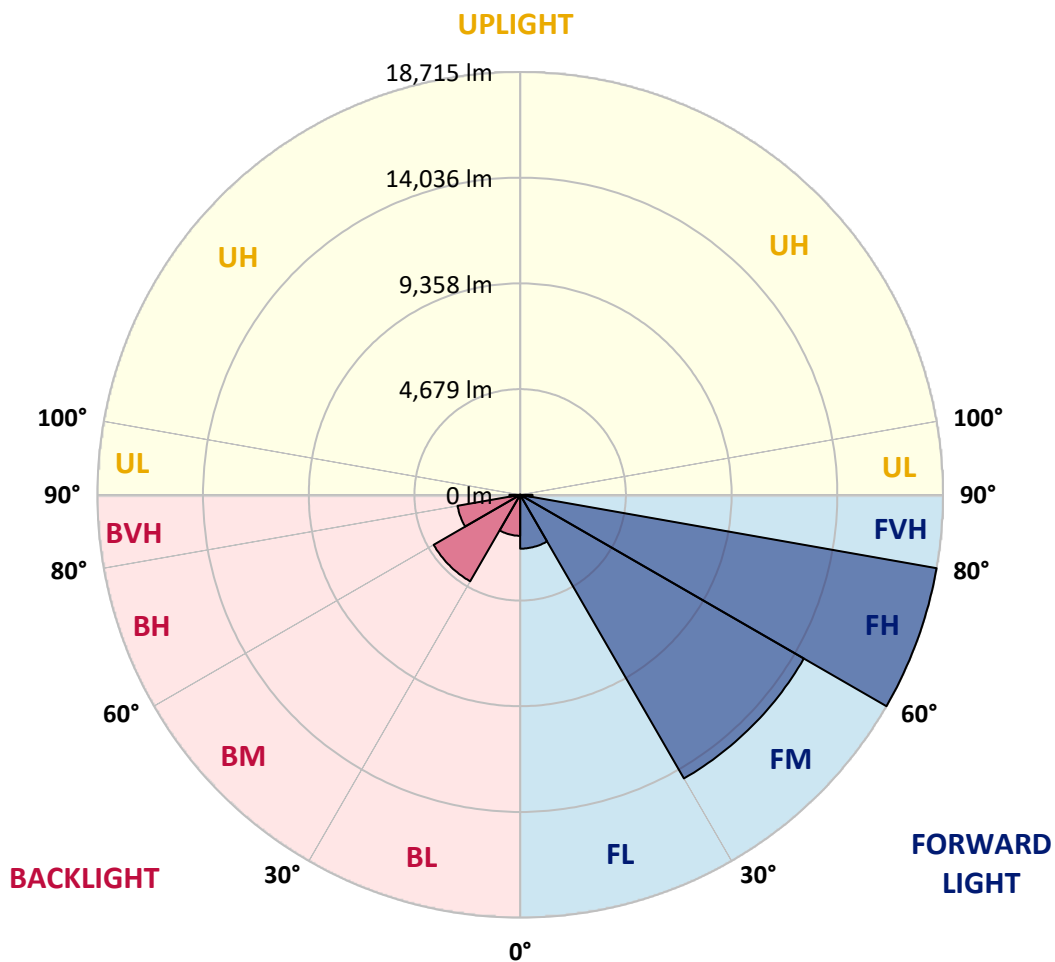
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.8	5.2			
FM	(30°-60°)	14495.6	31.7			
FH	(60°-80°)	18715.1	41.0			G5
FVH	(80°-90°)	545.6	1.2			G4/750
BL	(0°-30°)	1813.9	4.0	B3/2500		
BM	(30°-60°)	4422.0	9.7	B3/5000		
BH	(60°-80°)	2813.9	6.2	B4/5000		G4/5000
BVH	(80°-90°)	476.8	1.0			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°	47°	55°	65°	75°	85°
0°	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5
2.5°	5609.9	5598.8	5594.4	5585.5	5574.5	5518.4	5507.3	5467.5	5412.2	5353.9	5294.1
5°	5978.8	5976.6	5951.5	5907.3	5836.4	5713.9	5685.2	5587.8	5456.4	5329.5	5203.3
7.5°	6302.7	6282.8	6236.3	6147.1	6023.1	5856.3	5816.5	5680.7	5500.7	5327.3	5156.1
10°	6540.3	6529.3	6427.4	6305.0	6142.6	5958.2	5911.7	5760.4	5562.7	5342.8	5129.6
12.5°	6676.1	6654.0	6535.9	6389.8	6196.5	6016.5	5969.2	5816.5	5594.4	5342.8	5091.9
15°	6667.2	6651.7	6533.7	6373.6	6178.8	6020.9	5978.8	5825.4	5587.8	5320.7	5043.2
17.5°	6489.4	6496.1	6396.5	6238.6	6078.4	5958.2	5920.5	5778.9	5542.8	5276.4	4985.7
20°	6178.8	6209.8	6142.6	6003.2	5913.9	5832.0	5807.6	5687.4	5474.1	5212.2	4923.0
22.5°	5867.4	5896.2	5869.6	5751.6	5738.3	5689.6	5676.3	5590.0	5414.4	5172.4	4885.3
25°	5638.7	5665.2	5660.8	5558.2	5598.8	5596.6	5585.5	5542.8	5401.1	5172.4	4892.0
27.5°	5576.7	5585.5	5576.7	5483.0	5538.3	5583.3	5574.5	5567.1	5440.9	5236.5	4976.8
30°	5789.9	5776.7	5707.3	5518.4	5570.1	5632.0	5623.2	5627.6	5560.5	5405.5	5165.7
32.5°	6640.7	6580.2	6362.5	5832.0	5696.2	5729.4	5733.9	5807.6	5818.7	5665.2	5458.6
35°	7913.5	7847.1	7564.5	6671.7	6089.5	5974.4	5974.4	6085.1	6151.5	6038.6	5913.9
37.5°	9262.3	9188.5	9038.0	7836.0	6915.9	6398.7	6387.6	6465.1	6560.3	6587.6	6618.5
40°	10794.8	10717.3	10759.4	9142.0	8069.2	7133.6	6975.7	6920.3	7177.8	7349.0	7598.4
42.5°	12472.7	12436.5	12452.0	10597.0	9381.8	8233.7	8009.4	7722.4	8033.7	8337.7	8860.1
45°	14025.1	14056.1	14040.6	12154.7	10844.2	9575.1	9337.5	8781.9	9086.7	9608.3	10459.8
47.5°	15385.0	15255.9	15455.8	13856.1	12481.5	11077.4	10783.7	10040.0	10348.4	10992.5	12432.1
50°	17035.6	17017.8	16724.9	16127.3	14460.4	12585.6	12201.1	11339.3	11818.9	12714.7	14918.7
52.5°	18771.0	18448.5	18180.0	17892.9	16560.4	14132.1	13660.6	12634.3	13547.7	14673.7	17949.0
55°	19125.9	18982.0	19314.8	19797.3	18584.3	15738.4	15189.4	14258.3	15494.2	16913.8	21443.5
57.5°	19885.9	19883.7	20572.8	21432.4	20668.0	17442.1	16888.7	16220.2	17681.9	19479.3	25153.4
60°	20399.4	20543.3	21823.5	23491.8	22714.1	19410.7	18901.6	18484.0	20170.7	22347.4	28610.3
62.5°	20668.0	20863.5	22610.0	24327.0	25606.5	22687.5	22179.1	21577.0	23463.0	25493.6	30632.0
65°	19550.9	19934.6	22487.6	25049.4	28139.5	27999.3	27770.6	26713.2	27579.5	27979.4	29901.5
67.5°	16457.8	16851.1	19823.9	24375.7	29948.0	33123.0	33171.7	31365.4	30112.5	28192.6	25140.1
70°	11726.0	12034.4	14494.4	20437.1	28570.4	36470.6	36637.4	33508.9	29607.8	25002.2	17564.6
72.5°	5567.1	5756.0	8084.7	13301.3	22672.0	33415.9	33738.3	30772.2	25175.6	18510.5	9581.8
75°	2046.1	2103.6	2732.3	5658.6	13150.0	24642.8	25022.8	22058.9	16688.8	9215.8	3650.2
77.5°	1226.3	1263.9	1533.3	2388.4	5172.4	14085.6	14647.1	11996.8	7293.7	3430.3	1795.2
80°	857.4	883.9	1099.4	1486.0	2443.8	5367.9	5867.4	4896.4	2905.7	2170.8	1306.0
82.5°	580.0	593.2	773.3	1004.2	1624.0	1916.9	2068.2	2177.4	1959.7	1615.2	828.6
85°	380.0	393.3	524.6	661.9	1033.0	990.9	1013.1	1281.7	1430.7	1097.2	459.7
87.5°	217.7	226.5	315.8	353.4	506.9	419.8	424.3	675.1	915.7	740.1	279.6
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°	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5
2.5°	5278.6	5249.8	5185.6	5145.1	5107.4	5098.6	5083.1	5080.9	5078.6	5078.6	5072.0
5°	5160.5	5111.8	5012.2	4956.2	4909.7	4905.2	4903.0	4914.1	4918.5	4923.0	4916.3
7.5°	5085.3	5018.9	4894.2	4814.5	4759.2	4745.1	4768.0	4818.9	4852.1	4865.4	4858.8
10°	5038.8	4956.2	4812.3	4725.2	4678.7	4672.1	4700.9	4761.4	4830.0	4856.6	4854.3
12.5°	4985.7	4892.0	4738.5	4647.7	4621.2	4634.5	4672.1	4727.4	4799.0	4841.1	4843.3
15°	4931.8	4823.3	4665.4	4585.8	4574.7	4592.4	4627.8	4669.9	4725.2	4768.0	4772.4
17.5°	4867.6	4754.0	4596.8	4514.2	4505.3	4514.2	4516.4	4538.5	4574.7	4614.5	4625.6
20°	4799.0	4683.2	4518.6	4436.7	4396.9	4361.5	4320.9	4325.3	4336.4	4376.9	4385.8
22.5°	4749.6	4634.5	4458.8	4345.2	4239.0	4132.0	4052.3	4041.2	4045.6	4078.9	4089.9
25°	4754.0	4632.2	4443.4	4247.8	4014.7	3843.5	3736.5	3718.8	3716.6	3740.9	3757.1
27.5°	4841.1	4718.6	4500.9	4147.5	3770.4	3516.6	3403.7	3390.4	3372.7	3379.4	3397.1
30°	5034.4	4920.7	4641.1	4045.6	3505.5	3197.1	3079.1	3065.8	3041.4	3030.4	3043.6
32.5°	5349.4	5256.5	4845.5	3947.5	3241.4	2923.4	2803.8	2775.1	2759.6	2746.3	2757.4
35°	5874.1	5834.2	5118.5	3841.3	3008.2	2712.3	2603.9	2559.6	2537.5	2561.8	2579.5
37.5°	6696.0	6718.2	5476.3	3674.5	2828.2	2572.9	2481.4	2430.5	2397.3	2417.2	2437.1
40°	7860.4	7875.8	5871.8	3439.1	2672.5	2490.3	2392.9	2346.4	2299.2	2263.7	2261.5
42.5°	9388.4	9231.3	6260.7	3183.8	2492.5	2439.3	2330.9	2272.6	2201.8	2103.6	2083.7
45°	11201.4	10648.7	6555.8	2890.2	2290.3	2377.4	2261.5	2181.8	2070.4	1964.2	1953.1
47.5°	13290.2	12170.2	6700.4	2586.2	2101.4	2285.9	2177.4	2050.5	1910.3	1857.2	1850.5
50°	15840.2	13976.4	6769.1	2290.3	1937.6	2166.3	2054.9	1905.9	1788.6	1777.5	1770.8
52.5°	18744.4	16149.4	6791.9	2048.3	1801.8	2010.7	1955.3	1810.7	1717.0	1726.6	1726.6
55°	21783.6	18393.2	6489.4	1872.7	1677.1	1850.5	1888.2	1773.1	1694.8	1731.0	1744.3
57.5°	24573.5	20381.7	5538.3	1737.6	1559.8	1728.8	1863.8	1808.5	1755.4	1899.2	1908.1
60°	26715.5	21556.4	4136.4	1615.2	1472.8	1686.0	1928.7	1944.2	1957.5	2301.4	2348.6
62.5°	27164.1	21166.1	2843.7	1520.0	1432.9	1722.1	2046.1	2048.3	2032.8	2272.6	2301.4
65°	25104.7	18692.8	2068.2	1466.1	1399.7	1786.3	2146.4	2099.2	1997.4	2179.6	2125.8
67.5°	19936.8	14083.4	1722.1	1426.3	1351.0	1781.9	2252.7	2146.4	1977.4	2135.3	2048.3
70°	12941.2	8515.6	1533.3	1393.1	1292.7	1697.1	2314.6	2142.0	1919.2	1986.3	1883.7
72.5°	6313.8	3808.1	1406.3	1344.4	1233.0	1579.7	2312.4	2101.4	1859.4	1855.0	1799.6
75°	2470.3	1744.3	1290.5	1270.6	1131.1	1446.2	2250.5	2043.9	1788.6	1717.0	1697.1
77.5°	1446.2	1244.0	1144.4	1162.1	1008.6	1312.6	2159.7	1944.2	1690.4	1606.3	1584.2
80°	1052.9	931.2	975.4	1004.2	861.8	1179.8	2037.2	1821.8	1582.0	1624.0	1593.0
82.5°	675.1	599.9	791.0	819.8	717.9	1044.1	1903.7	1692.6	1428.5	1297.1	1266.2
85°	344.6	380.0	588.8	624.2	553.4	857.4	1742.1	1522.2	1255.1	1079.5	1097.2
87.5°	193.3	259.7	375.6	419.8	391.1	659.6	1413.0	1255.1	1024.1	833.0	733.4
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)