

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: P269755

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269755
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-10-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 41605 lumens
Efficiency: N/A
Efficacy: 99.3 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): 419
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

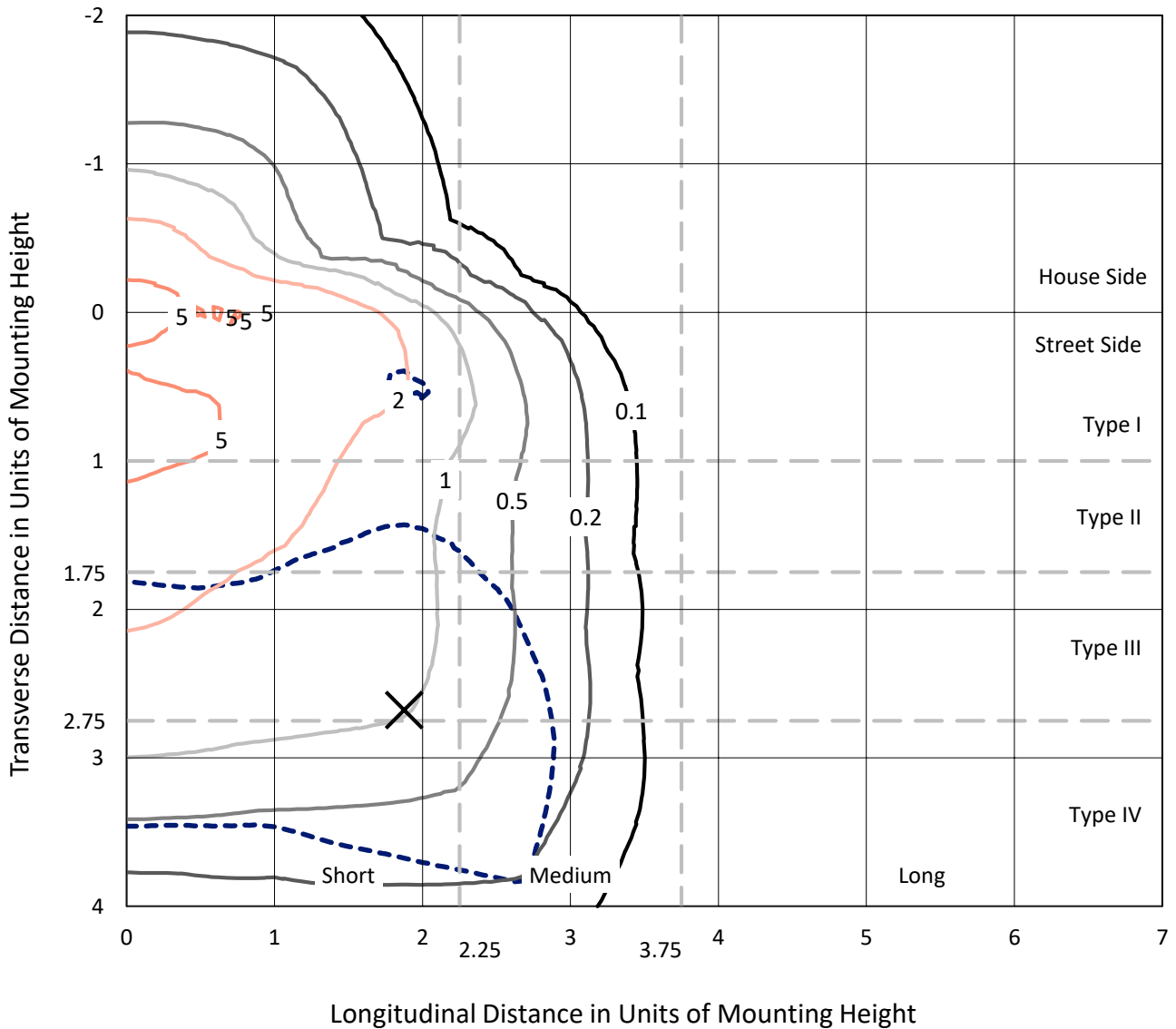


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

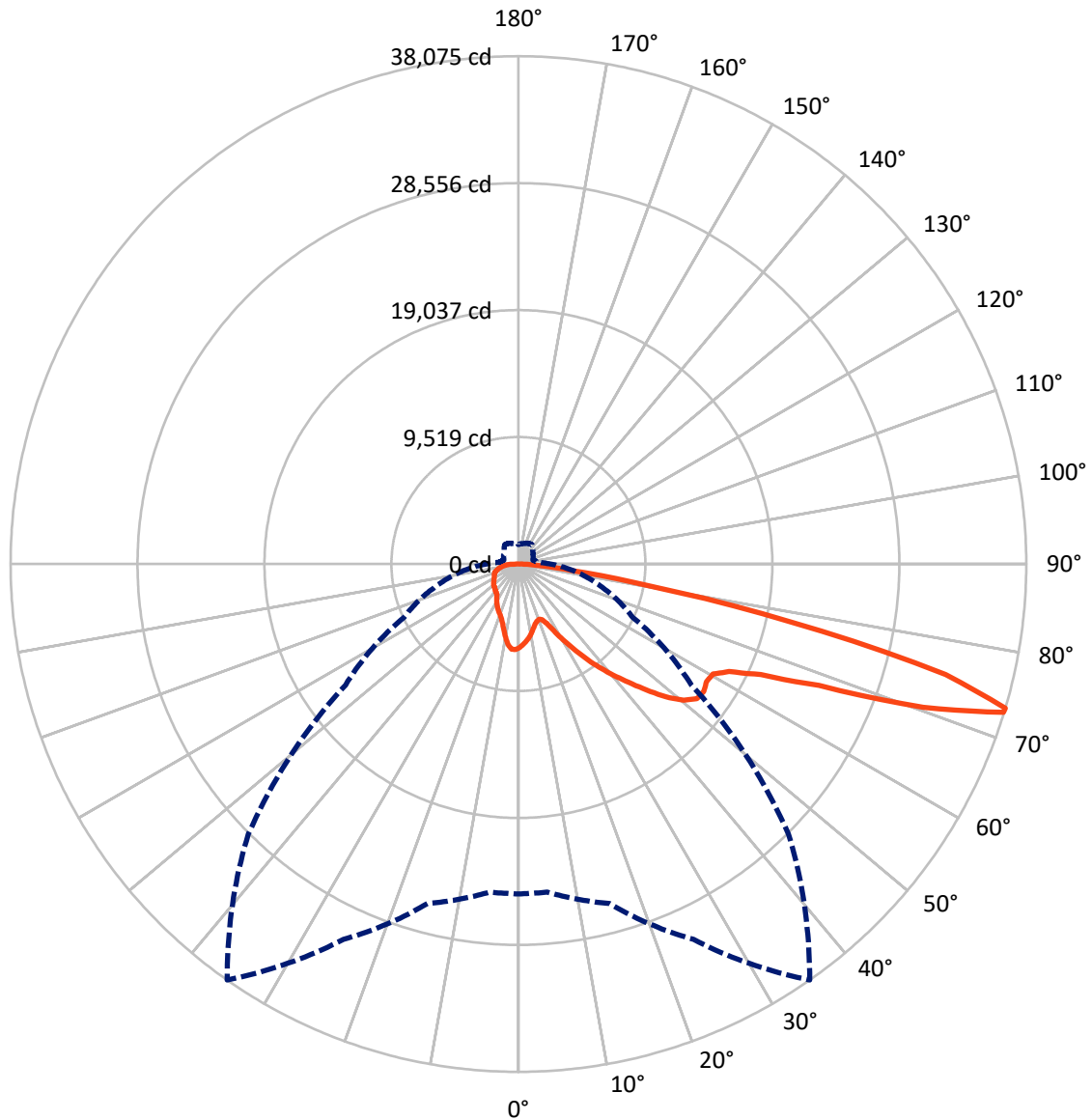


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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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	7935.2	0.0	7935.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33669.8	0.0	33669.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	41605.0	0.0	41605.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	1.4
10°-20°	1418.8	3.4
20°-30°	2293.7	5.5
30°-40°	3846.3	9.2
40°-50°	5928.9	14.3
50°-60°	7954.2	19.1
60°-70°	10596.6	25.5
70°-80°	8082.0	19.4
80°-90°	916.1	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°	41605.0	100.0
0°-180°	41605.0	100.0



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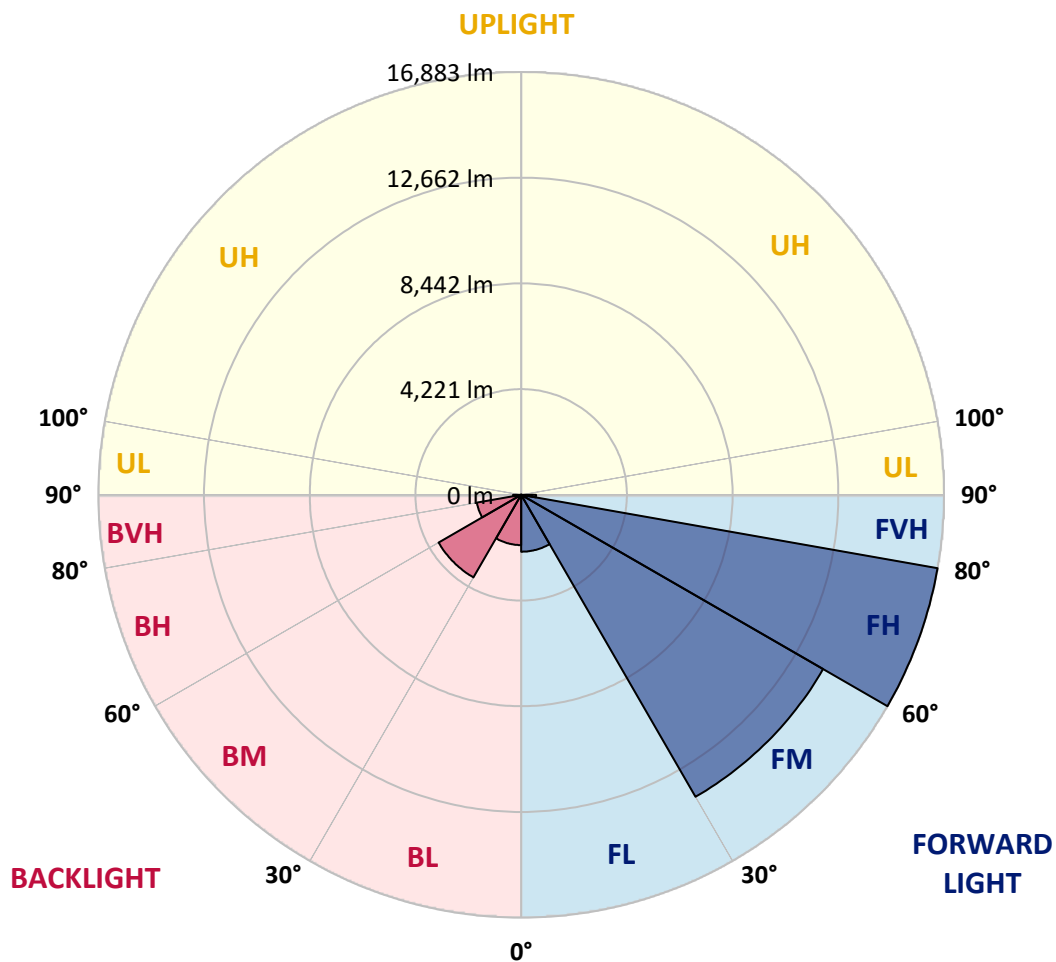
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2273.0	5.5			
FM	(30°-60°)	13921.3	33.5			
FH	(60°-80°)	16883.3	40.6			G5
FVH	(80°-90°)	592.1	1.4			G4/750
BL	(0°-30°)	2008.0	4.8	B3/2500		
BM	(30°-60°)	3808.0	9.2	B3/5000		
BH	(60°-80°)	1795.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	323.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5
2.5°	6031.8	6043.7	6029.8	6047.7	6077.8	6109.6	6131.7	6163.6	6199.6	6249.5	6261.5
5°	5748.1	5766.0	5766.0	5798.0	5856.0	5907.9	5955.9	6007.8	6083.7	6169.6	6203.5
7.5°	5436.4	5446.3	5464.3	5512.3	5596.3	5670.1	5738.1	5821.9	5925.8	6039.8	6099.8
10°	5060.7	5074.7	5102.7	5170.6	5284.5	5386.3	5484.3	5600.3	5732.1	5873.8	5949.8
12.5°	4795.1	4791.0	4803.0	4853.0	4952.9	5076.7	5218.7	5366.5	5528.3	5694.0	5786.1
15°	4705.1	4683.1	4637.2	4625.3	4679.1	4803.0	4966.9	5148.6	5342.5	5542.3	5656.2
17.5°	4761.0	4723.1	4597.3	4505.3	4497.4	4591.2	4765.1	4968.9	5192.7	5436.4	5578.2
20°	5112.8	5022.9	4713.0	4499.3	4425.4	4471.4	4623.1	4839.0	5102.7	5426.4	5608.2
22.5°	5953.8	5821.9	5164.6	4767.0	4517.2	4461.3	4575.2	4805.0	5112.8	5550.3	5782.0
25°	7178.5	6990.8	5939.9	5434.3	4918.8	4621.2	4647.2	4882.9	5254.5	5837.9	6117.6
27.5°	8145.6	8023.8	6952.8	6375.5	5650.1	5052.7	4880.9	5078.7	5544.2	6309.4	6595.1
30°	8720.9	8647.1	8035.7	7442.3	6583.1	5740.0	5328.4	5446.3	5997.8	6962.9	7198.6
32.5°	9388.2	9344.3	9044.7	8499.1	7590.0	6643.1	6037.8	5995.7	6605.1	7748.1	7855.9
35°	10079.5	10065.6	9889.7	9498.1	8671.0	7833.8	6978.8	6695.1	7266.5	8563.2	8495.2
37.5°	10722.9	10699.0	10597.0	10369.2	9801.9	9112.5	7937.8	7412.4	7979.7	9342.4	9040.6
40°	11907.7	11719.8	11370.1	11198.5	10944.7	10189.5	8698.9	8081.6	8718.9	10085.5	9512.2
42.5°	13352.1	13046.4	12395.2	12159.4	12123.4	11038.6	9218.4	8730.9	9464.3	10822.8	9975.7
45°	14488.9	14201.2	13639.9	13342.2	13474.0	11807.7	9740.0	9424.2	10231.3	11596.0	10453.1
47.5°	15701.7	15250.2	14507.0	14596.9	14884.6	12534.9	10271.3	10169.4	11072.5	12461.1	11046.5
50°	15745.8	15400.1	15074.4	15611.9	16059.3	13204.2	10936.7	10950.7	12101.4	13549.9	11835.7
52.5°	14832.6	14758.8	15276.1	16121.3	16766.7	13733.7	11693.9	11757.8	13418.2	14800.7	12702.8
55°	14512.9	14429.0	15026.4	15943.5	16862.5	14171.3	12515.0	12630.9	15010.4	16119.2	13548.0
57.5°	15292.1	15106.3	15146.3	15859.5	16628.7	14650.7	13410.1	13643.8	16740.6	17272.2	14091.4
60°	17469.9	17072.3	16317.1	16299.0	16754.6	15370.1	14445.0	14730.8	18538.9	17823.5	13879.6
62.5°	20524.7	20127.2	18712.7	17791.6	17723.6	16556.8	15715.7	15791.7	19577.8	17076.3	12587.0
65°	23831.2	23475.6	21895.3	20594.6	19967.3	18522.8	17192.1	16265.2	19238.0	15020.4	10325.3
67.5°	27845.1	27463.5	26104.9	24904.3	24300.8	21695.4	18229.0	15811.5	17082.3	11635.9	7422.2
70°	30652.2	30262.6	29727.3	30700.1	32176.6	26272.8	18363.0	13967.6	12758.7	7734.0	4467.5
72.5°	26990.0	26808.2	27785.1	31883.0	38032.5	29049.8	16598.8	10169.4	7410.3	4105.8	2585.3
73°	24728.4	24688.4	26354.7	31053.8	38074.5	28622.3	15825.6	9452.1	6355.4	3632.2	2363.5
75°	11166.4	11488.1	15140.4	23719.3	33079.6	23585.4	11138.4	5422.3	3590.3	2509.3	1784.2
77.5°	2683.1	2795.0	4737.1	11264.3	20890.4	14055.4	5046.8	2681.3	2295.6	1772.1	1302.6
80°	1142.9	1180.8	1824.1	4161.7	9835.8	5660.1	2325.6	1796.2	1588.4	1236.7	913.0
82.5°	635.3	675.3	1034.9	1888.1	3969.9	1930.0	1418.6	1250.7	1044.9	745.2	593.4
85°	359.6	381.6	605.4	1054.9	1682.3	775.1	849.1	831.1	589.4	383.5	291.7
87.5°	169.8	183.9	291.7	489.4	659.4	303.6	431.5	475.6	369.7	233.7	151.9
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°	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5	6279.5
2.5°	6275.5	6311.4	6353.4	6375.5	6395.4	6419.4	6443.4	6443.4	6447.3	6449.3
5°	6231.5	6305.5	6371.4	6399.3	6405.4	6405.4	6399.3	6367.4	6339.3	6351.5
7.5°	6139.6	6247.5	6303.4	6293.4	6217.6	6129.7	6055.7	5965.9	5919.9	5911.8
10°	6007.8	6131.7	6141.6	6041.7	5854.0	5666.1	5510.4	5358.4	5286.5	5268.5
12.5°	5861.9	5975.9	5911.8	5706.0	5404.5	5130.7	4933.0	4779.1	4711.2	4693.1
15°	5744.0	5821.9	5660.1	5336.6	4956.8	4667.1	4503.4	4389.5	4341.5	4327.6
17.5°	5682.0	5698.0	5402.3	4964.8	4561.2	4319.5	4217.6	4163.6	4145.7	4135.6
20°	5712.1	5600.3	5156.6	4619.3	4237.7	4067.7	4043.8	4029.8	4025.8	4019.8
22.5°	5861.9	5570.2	4930.8	4291.6	3953.9	3880.0	3899.9	3897.9	3894.0	3890.0
25°	6129.7	5596.3	4711.2	3979.9	3716.2	3700.2	3736.1	3736.1	3720.2	3720.2
27.5°	6483.2	5650.1	4465.4	3684.2	3500.3	3502.3	3530.2	3522.3	3504.4	3492.4
30°	6914.9	5684.1	4177.7	3418.5	3298.5	3290.6	3298.5	3264.6	3210.6	3206.7
32.5°	7356.4	5642.2	3843.9	3182.7	3084.8	3066.9	3060.9	3012.8	2950.9	2933.0
35°	7756.0	5488.4	3504.4	2994.9	2881.0	2841.1	2869.0	2853.0	2797.1	2783.0
37.5°	8047.6	5202.7	3198.7	2829.0	2735.2	2725.2	2743.2	2749.2	2683.1	2669.3
40°	8243.4	4815.1	2937.0	2689.3	2707.2	2669.3	2609.2	2567.4	2547.4	2541.3
42.5°	8401.3	4411.4	2717.2	2623.3	2713.2	2603.3	2473.5	2405.5	2441.5	2457.5
45°	8583.0	4017.8	2533.4	2541.3	2683.1	2527.4	2379.5	2313.7	2327.6	2331.6
47.5°	8832.9	3538.3	2335.6	2409.6	2583.3	2475.4	2321.6	2227.6	2161.7	2131.8
50°	9178.5	2971.0	2129.8	2261.7	2485.4	2437.6	2231.7	2131.8	2009.9	1981.9
52.5°	9418.2	2441.5	1959.9	2137.7	2397.4	2361.6	2159.7	2029.9	1902.0	1878.0
55°	9288.4	2028.0	1812.2	1999.9	2281.7	2267.6	2099.8	1926.0	1826.2	1806.1
57.5°	8639.0	1766.2	1698.2	1870.0	2139.9	2187.7	2019.8	1838.1	1766.2	1752.1
60°	7400.3	1602.3	1626.3	1782.1	2023.9	2107.9	1940.0	1790.1	1742.3	1732.2
62.5°	5742.1	1492.4	1572.4	1718.2	1934.1	2051.9	1896.1	1784.2	1766.2	1754.2
65°	4113.8	1404.5	1514.5	1654.3	1852.0	1999.9	1880.1	1776.2	1780.1	1770.2
67.5°	2795.0	1326.6	1444.6	1582.4	1772.1	1954.0	1858.1	1748.2	1798.1	1786.1
70°	1956.0	1250.7	1362.5	1490.5	1672.3	1890.0	1818.1	1706.2	1702.3	1654.3
72.5°	1526.4	1150.8	1250.7	1362.5	1544.4	1800.2	1738.2	1612.3	1546.4	1496.4
73°	1456.5	1126.8	1222.8	1334.6	1516.3	1778.1	1716.2	1586.3	1512.4	1466.5
75°	1204.7	1022.9	1110.8	1210.7	1396.5	1674.4	1608.3	1468.5	1374.5	1346.6
77.5°	947.1	875.0	959.0	1049.0	1230.7	1522.4	1448.4	1314.6	1262.7	1238.8
80°	701.2	725.2	799.1	879.1	1066.8	1360.7	1294.6	1160.8	1392.6	1334.6
82.5°	493.4	549.5	617.3	689.3	895.2	1202.7	1122.8	985.0	1018.9	847.1
85°	291.7	359.6	423.6	485.5	645.3	996.9	927.1	785.2	643.4	613.4
87.5°	169.8	199.9	217.7	281.7	443.6	751.3	653.2	581.5	333.6	225.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)