

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: P383399

Luminaire Tested: **GLEON-SA7A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30132.8 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

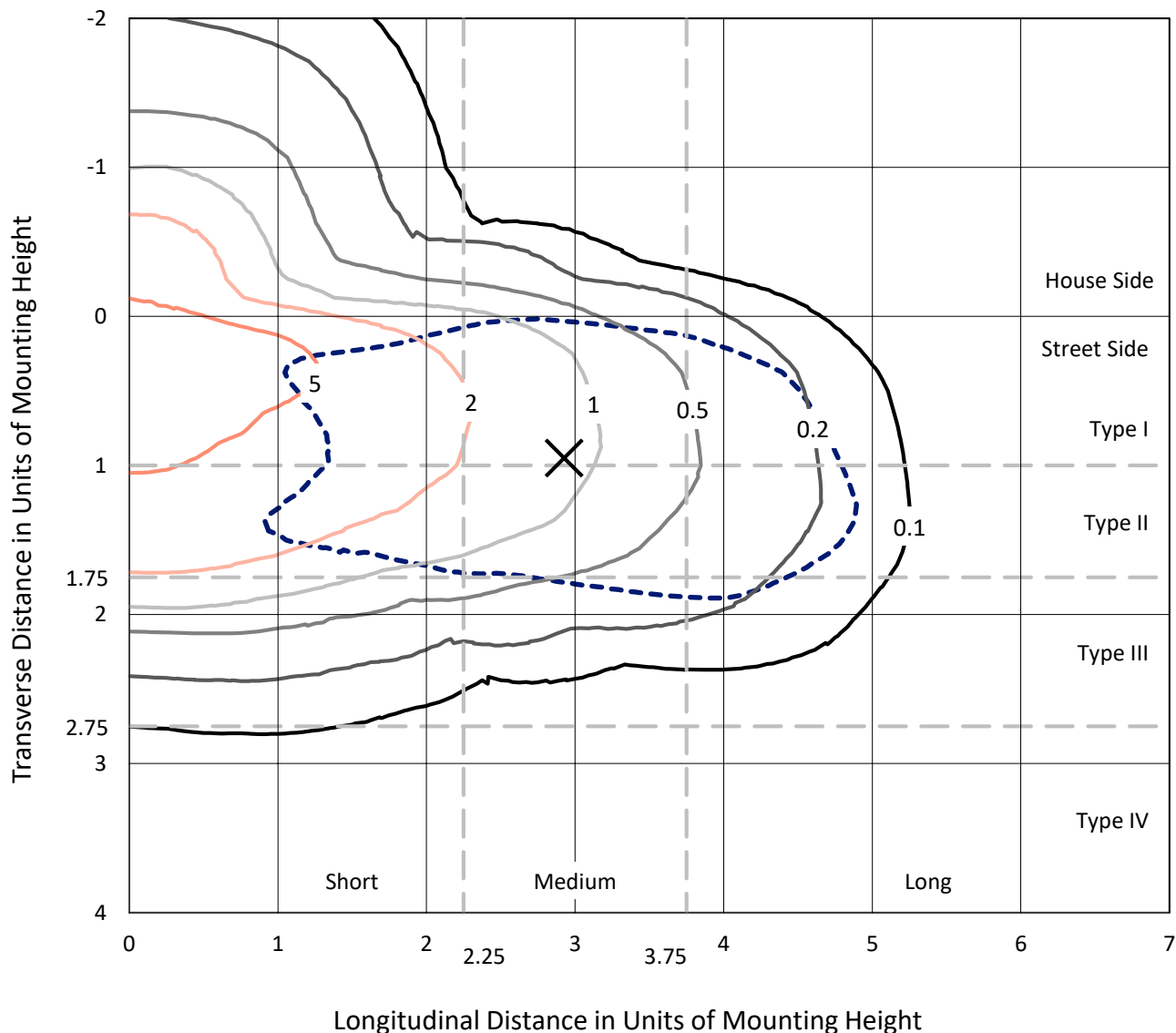
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

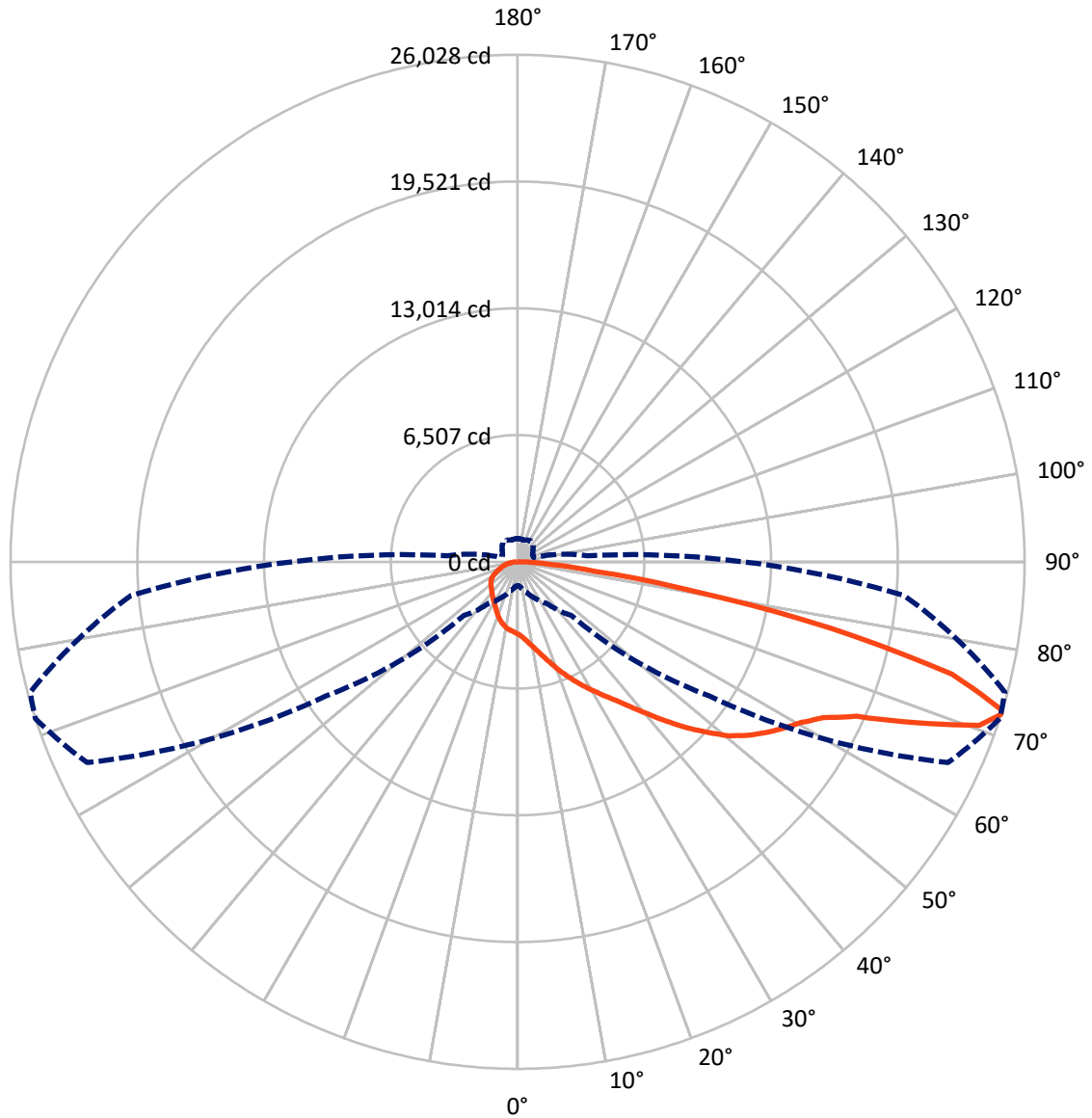
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5589.8	0.0	5589.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24542.9	0.0	24542.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	30132.8	0.0	30132.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.2
10°-20°	1200.4	4.0
20°-30°	2103.5	7.0
30°-40°	3118.8	10.4
40°-50°	4561.5	15.1
50°-60°	6276.5	20.8
60°-70°	6987.7	23.2
70°-80°	4734.8	15.7
80°-90°	778.2	2.6
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°	30132.8	100.0
0°-180°	30132.8	100.0

Coefficient of Utilization

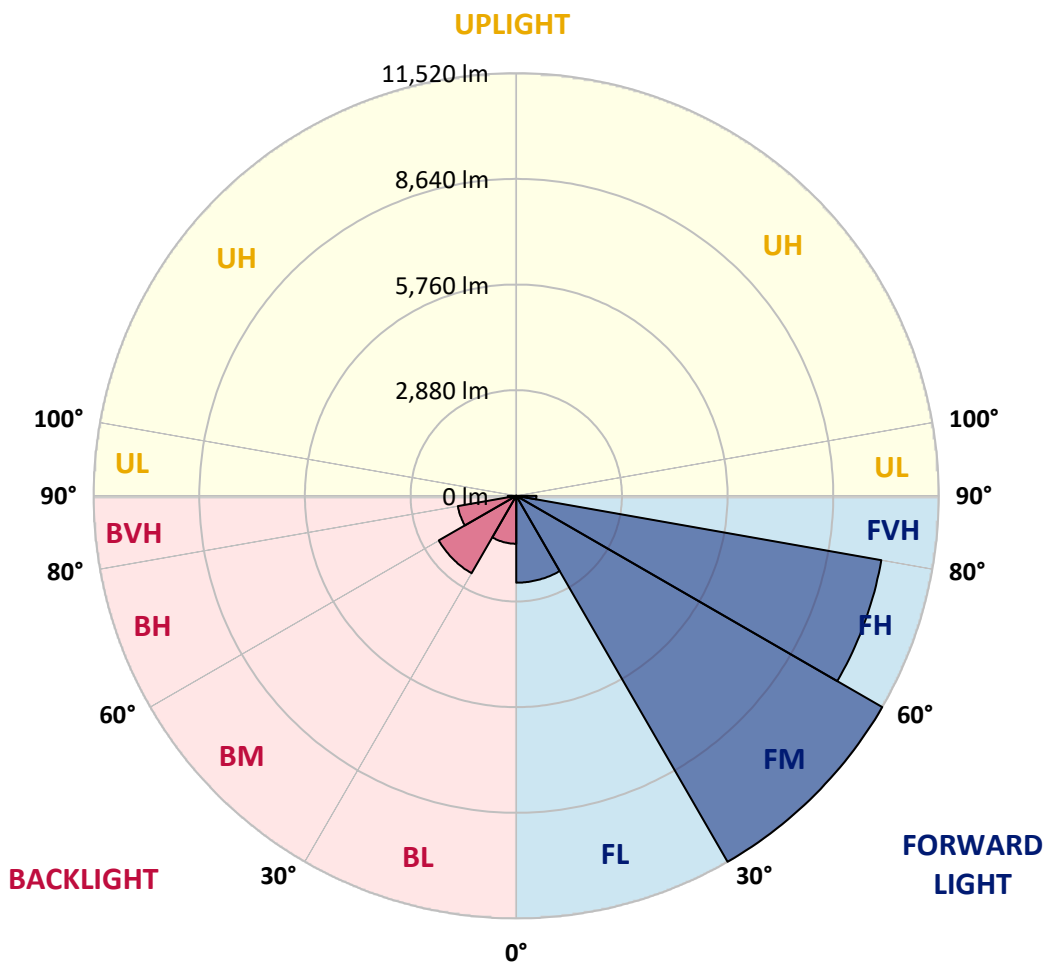


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.6	7.9			
FM (30°-60°)	11520.1	38.2			
FH (60°-80°)	10105.3	33.5			G4/12000
FVH (80°-90°)	548.9	1.8			G4/750
BL (0°-30°)	1306.7	4.3	B3/2500		
BM (30°-60°)	2436.6	8.1	B2/2500		
BH (60°-80°)	1617.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	229.3	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1
2.5°	4095.2	4088.9	4067.1	4067.1	4025.7	3990.4	3924.0	3879.3	3826.4	3807.8	3745.5
5°	4491.5	4493.6	4466.6	4448.0	4386.7	4312.0	4199.0	4096.2	3993.5	3952.0	3824.4
7.5°	4824.6	4820.4	4813.1	4797.6	4740.5	4663.7	4511.2	4358.7	4207.2	4144.9	3925.0
10°	5038.3	5047.6	5053.8	5061.1	5037.3	4982.3	4838.0	4652.3	4454.1	4369.1	4045.3
12.5°	5146.1	5162.8	5191.8	5241.6	5281.0	5274.8	5170.1	4972.9	4737.4	4630.5	4195.8
15°	5209.5	5231.3	5276.9	5366.2	5477.1	5540.5	5512.4	5333.9	5071.4	4939.7	4379.5
17.5°	5248.9	5266.5	5337.1	5456.4	5621.3	5789.5	5863.2	5713.7	5449.2	5298.7	4590.0
20°	5275.9	5289.3	5377.5	5517.6	5731.3	5999.1	6204.5	6167.1	5865.2	5670.1	4810.0
22.5°	5336.1	5347.5	5431.5	5572.6	5809.1	6154.6	6533.4	6589.4	6304.1	6083.1	5045.5
25°	5504.1	5504.1	5574.7	5673.2	5895.3	6289.5	6811.4	7059.4	6752.3	6494.9	5263.4
27.5°	5824.7	5821.6	5847.5	5881.8	6049.8	6426.5	7059.4	7474.4	7217.1	6935.9	5475.1
30°	6204.5	6225.3	6228.3	6211.7	6290.6	6597.7	7288.7	7912.3	7685.0	7382.0	5691.9
32.5°	6693.2	6706.7	6691.0	6636.1	6624.7	6840.4	7513.9	8370.9	8191.4	7847.9	5890.1
35°	7313.6	7287.7	7238.9	7126.8	7020.0	7165.2	7771.2	8829.4	8759.9	8411.3	6162.9
37.5°	7978.6	7979.7	7919.6	7665.3	7518.0	7580.3	8126.0	9349.2	9447.8	9081.6	6512.6
40°	8511.9	8540.0	8577.3	8243.3	8052.3	8138.5	8577.3	9952.0	10261.3	9876.3	6968.1
42.5°	8884.4	8916.6	9022.4	8812.8	8614.7	8774.4	9108.5	10595.3	11174.3	10793.5	7501.4
45°	9278.7	9296.3	9371.0	9280.7	9154.2	9514.2	9707.2	11261.4	12140.2	11770.8	8097.9
47.5°	9693.7	9712.4	9789.2	9729.0	9662.6	10205.2	10331.8	11889.2	13065.7	12844.7	8735.0
50°	10206.2	10218.7	10291.4	10182.4	10203.1	10726.0	10890.0	12464.9	14035.8	13809.6	9374.2
52.5°	10905.5	10908.7	11009.3	10910.8	10813.2	11107.9	11370.4	13007.6	14796.3	14689.5	10013.3
55°	11453.4	11486.5	11816.5	11795.7	11739.7	11454.4	11771.9	13524.3	15474.9	15525.7	10691.8
57.5°	11103.7	11233.4	11901.5	12372.6	12831.2	12316.5	12314.5	14106.3	16105.7	16346.4	11437.8
60°	9724.8	9901.2	10885.8	11930.6	13365.6	13816.9	13441.3	14817.0	16742.7	17159.9	12372.6
62.5°	6945.2	7235.8	8570.1	10238.5	12633.0	14810.9	15734.2	15944.8	17609.0	18101.9	13587.6
65°	3511.0	3730.9	4849.5	6859.2	10093.1	14161.3	18226.4	18414.2	19114.5	19552.3	15458.3
67.5°	2133.2	2216.2	2761.9	3815.1	6187.9	11031.1	19039.8	22530.1	22027.9	22260.4	18125.8
70°	1571.9	1633.1	1973.4	2533.6	3558.8	6473.2	16543.5	25467.4	25137.4	25111.4	20097.1
72°	1224.3	1268.9	1569.8	2047.1	2602.2	3883.5	11990.8	24383.2	26027.6	25896.9	19916.6
72.5°	1161.0	1200.4	1474.4	1926.7	2459.0	3520.3	10781.1	23651.7	25963.3	25904.2	19683.1
75°	914.0	942.1	1091.5	1489.9	1924.7	1997.2	5907.7	18329.1	23032.2	23989.9	17703.5
77.5°	756.3	760.5	839.3	1084.2	1500.3	1412.1	2902.0	12717.1	16492.7	17545.8	12540.7
80°	616.3	621.5	658.8	760.5	1135.1	1044.8	1377.9	7312.6	9234.1	9245.5	5963.8
82.5°	490.7	491.8	533.3	556.1	815.5	747.0	789.6	3433.2	4035.0	3881.4	2143.6
85°	345.5	338.2	520.8	456.6	533.3	479.4	435.8	1359.1	1668.4	1595.7	671.3
87.5°	115.1	119.3	231.4	295.7	311.2	271.8	194.0	520.8	629.8	624.6	212.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1	3707.1
2.5°	3725.8	3692.6	3643.8	3589.9	3547.3	3503.7	3471.6	3455.0	3436.3	3420.7	3439.5
5°	3765.2	3703.0	3599.2	3497.5	3422.9	3356.5	3308.7	3283.8	3261.0	3245.4	3247.5
7.5°	3829.6	3728.9	3554.6	3406.2	3302.5	3230.9	3182.2	3165.5	3151.0	3146.9	3152.1
10°	3898.1	3749.7	3495.4	3298.3	3180.0	3120.9	3099.2	3110.5	3120.9	3130.3	3140.6
12.5°	3975.8	3768.3	3409.4	3171.7	3071.1	3048.3	3070.1	3119.8	3156.2	3178.0	3191.5
15°	4077.5	3785.0	3309.7	3045.1	2977.7	3003.7	3077.4	3163.4	3226.7	3267.2	3273.5
17.5°	4170.9	3783.9	3182.2	2917.5	2902.0	2977.7	3088.7	3210.1	3295.3	3352.3	3363.7
20°	4267.4	3755.9	3033.8	2793.1	2825.2	2949.7	3093.9	3240.2	3343.0	3409.4	3424.9
22.5°	4357.7	3707.1	2870.8	2680.0	2760.9	2912.4	3074.2	3222.6	3325.3	3379.3	3395.9
25°	4418.9	3622.0	2705.9	2584.5	2703.8	2866.7	3009.9	3129.3	3206.0	3232.9	3237.1
27.5°	4450.0	3511.0	2550.3	2501.5	2644.7	2792.0	2890.6	2949.7	2971.5	2969.4	2965.3
30°	4454.1	3364.7	2416.4	2434.0	2576.2	2682.0	2728.7	2717.3	2689.3	2641.6	2645.7
32.5°	4440.7	3199.8	2304.4	2369.8	2489.1	2548.2	2550.3	2495.2	2420.5	2344.8	2324.1
35°	4444.8	3037.9	2205.8	2297.1	2383.2	2409.2	2385.3	2304.4	2202.6	2105.2	2084.4
37.5°	4490.4	2896.8	2120.8	2213.1	2266.0	2272.2	2237.9	2152.9	2078.2	1982.7	1974.4
40°	4599.4	2796.1	2039.8	2118.6	2148.7	2151.9	2103.1	2042.9	2049.1	1998.3	1997.2
42.5°	4795.5	2752.6	1968.2	2020.1	2038.8	2045.0	2007.7	1969.2	2023.2	1990.0	1978.6
45°	5048.6	2763.0	1908.0	1923.6	1957.8	1986.9	1964.1	1917.4	1938.1	1793.9	1746.2
47.5°	5341.2	2829.4	1860.3	1840.6	1899.7	1954.8	1919.5	1848.9	1775.3	1632.1	1605.1
50°	5683.7	2932.0	1816.7	1758.7	1836.5	1911.2	1875.9	1775.3	1664.2	1594.7	1585.4
52.5°	6040.5	3057.6	1773.1	1668.4	1756.5	1877.9	1860.3	1758.7	1621.6	1553.2	1540.8
55°	6445.2	3184.2	1718.1	1563.6	1670.5	1862.3	1853.0	1698.5	1589.5	1551.1	1541.8
57.5°	6948.4	3328.4	1645.6	1454.6	1589.5	1806.4	1777.3	1662.2	1556.3	1527.3	1524.1
60°	7604.1	3541.1	1540.8	1338.4	1490.9	1720.2	1714.0	1609.2	1503.4	1482.7	1478.5
62.5°	8587.7	3892.8	1396.5	1222.2	1380.9	1573.9	1631.0	1537.6	1447.3	1446.3	1448.4
65°	10112.9	4422.0	1239.9	1120.6	1270.0	1450.5	1534.5	1463.9	1390.3	1411.0	1414.2
67.5°	11880.9	4860.8	1086.3	1021.0	1156.9	1333.2	1447.3	1390.3	1314.6	1368.5	1369.6
70°	12469.1	4468.6	951.4	922.3	1039.6	1220.1	1353.0	1309.4	1232.6	1286.6	1281.3
72°	11603.8	3607.5	864.3	847.7	951.4	1126.8	1268.9	1233.6	1157.9	1194.2	1180.7
72.5°	11331.0	3439.5	842.5	829.0	927.5	1102.9	1247.2	1214.9	1139.2	1170.3	1157.9
75°	10107.7	2987.1	724.2	727.4	809.2	986.7	1124.7	1114.3	1036.5	1039.6	1035.4
77.5°	7331.2	2190.3	610.1	630.8	688.9	867.4	1001.2	995.0	909.9	894.4	891.2
80°	3402.1	1117.4	497.0	506.3	566.5	725.2	853.9	845.6	777.1	757.4	746.0
82.5°	1165.2	531.3	373.6	379.7	438.9	584.2	740.8	735.6	678.5	640.2	616.3
85°	416.0	264.6	261.5	255.2	313.4	459.6	645.4	617.3	533.3	454.4	452.4
87.5°	134.9	113.1	134.9	133.9	182.6	311.2	468.9	399.4	387.0	321.7	315.4
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)