

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: P522855

Luminaire Tested: **GALN-SA7C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38940 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 377
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

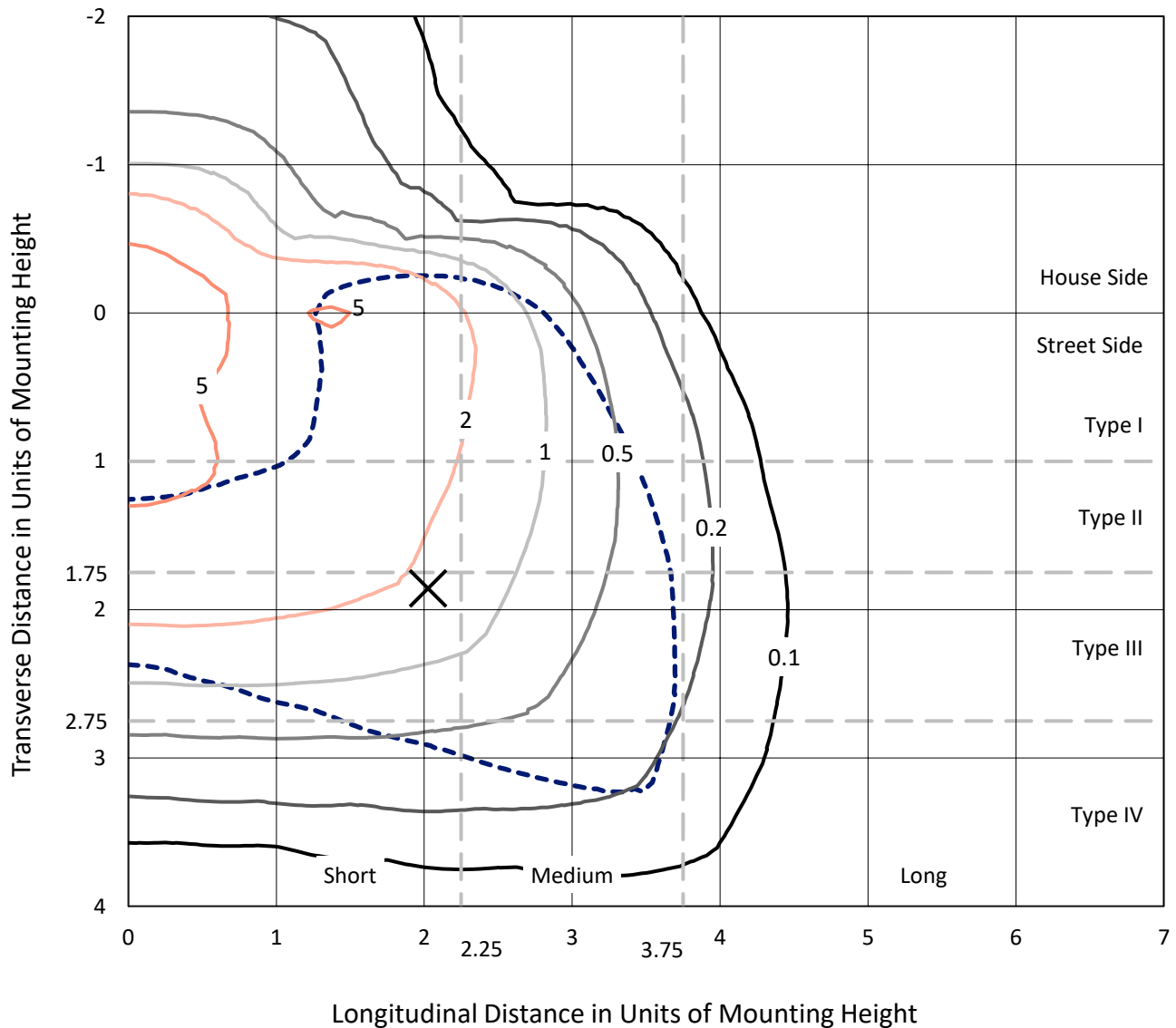


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

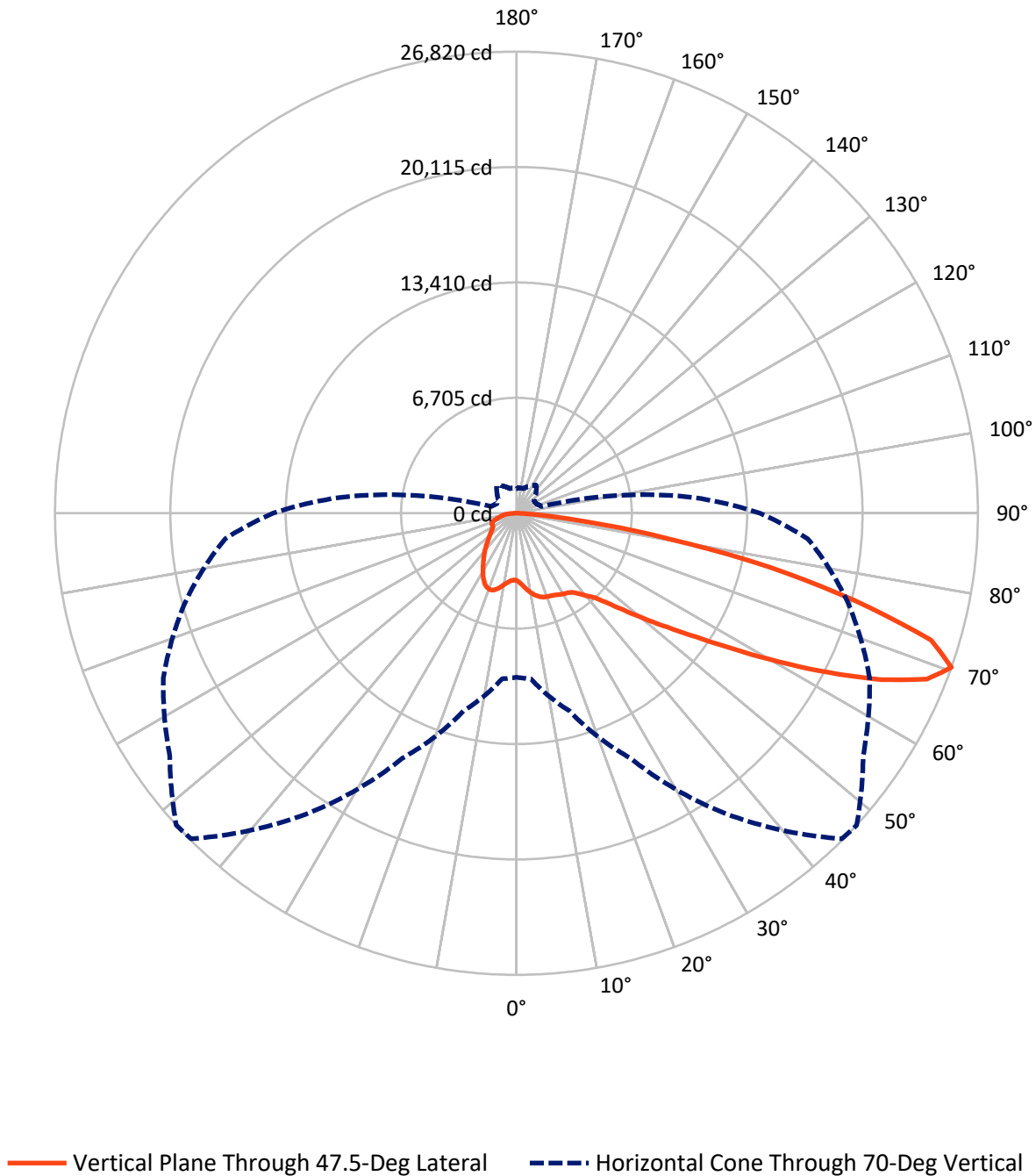


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8816.8	0.0	8816.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30123.2	0.0	30123.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	38940.0	0.0	38940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	1.0
10°-20°	1347.1	3.5
20°-30°	2240.2	5.8
30°-40°	3175.1	8.2
40°-50°	4687.2	12.0
50°-60°	8118.4	20.8
60°-70°	11467.4	29.4
70°-80°	6592.1	16.9
80°-90°	909.6	2.3
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°	38940.0	100.0
0°-180°	38940.0	100.0

Coefficient of Utilization



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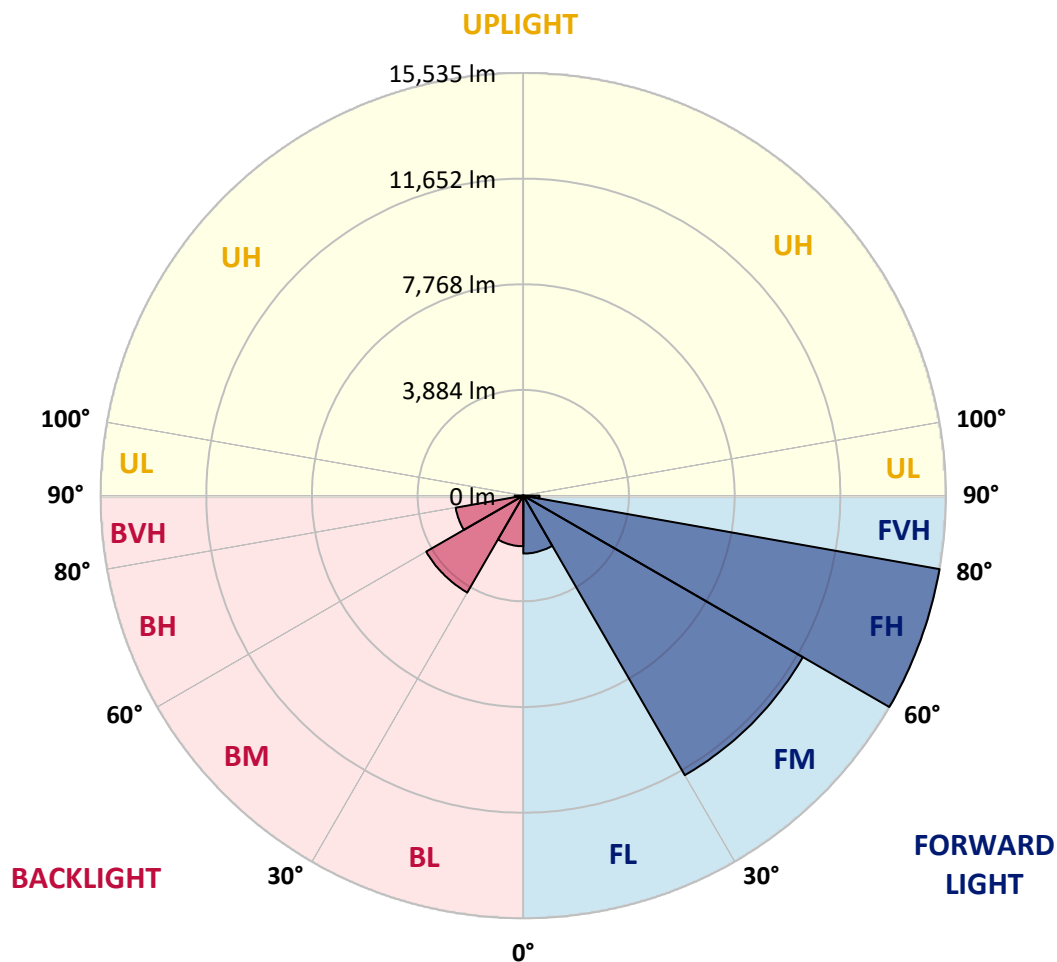
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.4	5.5			
FM	(30°-60°)	11864.3	30.5			
FH	(60°-80°)	15535.4	39.9			G5
FVH	(80°-90°)	594.1	1.5			G4/750
BL	(0°-30°)	1860.8	4.8	B3/2500		
BM	(30°-60°)	4116.4	10.6	B3/5000		
BH	(60°-80°)	2524.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	315.4	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°	47.5°	55°	65°	75°	85°
0°	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1
2.5°	4161.2	4146.7	4144.6	4113.3	4096.6	4065.4	4052.9	4023.7	3988.3	3952.9	3919.5
5°	4488.4	4488.4	4473.8	4430.0	4361.3	4290.4	4259.2	4202.9	4102.9	4021.6	3952.9
7.5°	4823.9	4828.0	4798.9	4734.3	4636.3	4521.7	4492.6	4409.2	4267.5	4148.7	4046.6
10°	5113.5	5113.5	5073.9	4986.4	4863.5	4738.4	4709.3	4615.5	4457.1	4309.2	4175.8
12.5°	5334.4	5334.4	5282.3	5167.7	5034.3	4921.8	4888.5	4798.9	4650.9	4486.3	4317.5
15°	5478.2	5467.7	5409.4	5280.2	5151.0	5053.1	5030.2	4955.1	4819.7	4653.0	4463.4
17.5°	5484.4	5480.3	5424.0	5315.6	5203.1	5136.4	5121.8	5071.8	4965.6	4807.2	4607.2
20°	5363.6	5371.9	5334.4	5257.3	5203.1	5173.9	5167.7	5151.0	5076.0	4928.1	4728.0
22.5°	5234.4	5249.0	5213.5	5171.9	5167.7	5196.9	5201.0	5205.2	5157.3	5013.5	4830.1
25°	5203.1	5213.5	5178.1	5140.6	5163.5	5240.6	5257.3	5274.0	5236.5	5115.6	4951.0
27.5°	5361.5	5353.1	5284.4	5203.1	5217.7	5321.9	5344.8	5363.6	5344.8	5240.6	5101.0
30°	5809.5	5782.4	5644.9	5407.3	5332.3	5405.2	5428.2	5480.3	5480.3	5403.2	5263.5
32.5°	6559.6	6507.5	6255.4	5788.6	5528.2	5484.4	5507.3	5592.8	5636.5	5576.1	5424.0
35°	7470.2	7416.1	7055.6	6428.4	5886.6	5642.8	5636.5	5732.4	5849.1	5713.6	5515.7
37.5°	8385.0	8328.7	7895.3	7191.0	6409.6	5976.2	5938.7	5972.0	6022.0	5774.1	5642.8
40°	9299.8	9233.1	8853.8	8043.3	7049.3	6417.9	6320.0	6170.0	6149.1	5972.0	5888.7
42.5°	10206.2	10145.8	9954.1	8999.7	7816.1	6849.3	6699.2	6440.9	6520.0	6413.8	6340.8
45°	11121.0	11125.1	10920.9	10072.8	8741.3	7645.3	7443.1	7038.9	7226.4	7186.8	7228.5
47.5°	11931.5	11921.1	11848.2	11114.7	9889.5	8670.5	8410.0	7941.2	8262.1	8407.9	8726.7
50°	12717.1	12710.9	12715.0	12296.2	11223.1	9889.5	9601.9	9110.1	9833.2	10339.5	10910.5
52.5°	13842.3	13877.7	13625.6	13515.2	12844.2	11329.3	11012.6	10504.2	11689.8	12487.9	13602.7
55°	14971.7	14942.5	14744.6	14859.2	14540.4	13033.8	12702.5	12298.3	13756.9	14630.0	16305.3
57.5°	15636.4	15646.8	15849.0	16409.5	16634.5	15159.3	14859.2	14546.6	16080.3	16699.1	18710.0
60°	16234.5	16282.4	16863.8	17922.3	18532.8	17770.2	17503.5	17199.2	18211.9	18457.8	20797.9
62.5°	16422.0	16569.9	17584.7	19168.4	20383.2	20716.6	20385.3	19714.3	20241.5	20145.7	22212.7
65°	15486.4	15688.5	17507.6	19635.1	22035.6	23513.0	23302.5	22056.5	21971.0	21393.8	22444.0
67.5°	13023.4	13225.5	15561.4	18655.8	22719.1	25934.3	25723.8	23765.1	23021.2	21510.5	20693.7
70°	9529.0	9656.1	11889.9	15707.3	21345.9	26747.0	26819.9	24598.6	22646.2	19924.8	16990.9
72.5°	5490.7	5772.0	7336.9	11050.1	17438.9	24692.4	25198.7	22864.9	20274.8	16622.0	11879.4
75°	2360.9	2367.1	3392.3	6095.0	11810.7	19847.7	20337.4	18953.8	15921.9	11493.9	6342.9
77.5°	1123.1	1144.0	1492.0	2721.4	6501.3	13713.1	15034.2	13390.2	10183.3	5521.9	2396.3
80°	729.3	743.9	912.7	1350.3	3188.1	7951.6	8872.6	7724.4	4492.6	1973.3	1033.5
82.5°	441.8	445.9	610.5	825.2	1754.5	3600.7	4244.6	3352.7	1917.0	1181.5	608.5
85°	268.8	270.9	370.9	510.5	1064.8	1244.0	1277.3	1266.9	1125.2	773.1	325.1
87.5°	129.2	133.4	191.7	241.7	418.8	385.5	364.7	423.0	531.4	416.7	139.6
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°	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1
2.5°	3904.9	3898.7	3884.1	3877.9	3873.7	3875.8	3873.7	3873.7	3875.8	3875.8	3875.8
5°	3923.7	3913.3	3890.4	3890.4	3902.9	3932.0	3959.1	3980.0	4002.9	4000.8	4000.8
7.5°	4005.0	3986.2	3959.1	3967.5	3998.7	4044.6	4092.5	4138.3	4184.2	4188.3	4186.2
10°	4123.7	4105.0	4075.8	4086.2	4136.2	4205.0	4265.4	4332.1	4382.1	4396.7	4392.5
12.5°	4259.2	4221.7	4196.7	4225.8	4305.0	4396.7	4455.0	4505.1	4540.5	4561.3	4553.0
15°	4396.7	4361.3	4332.1	4392.5	4488.4	4573.8	4603.0	4611.3	4617.6	4638.4	4634.3
17.5°	4530.1	4482.1	4471.7	4550.9	4642.6	4680.1	4663.4	4628.0	4600.9	4617.6	4615.5
20°	4648.8	4611.3	4607.2	4686.3	4721.8	4686.3	4615.5	4553.0	4505.1	4509.2	4507.1
22.5°	4761.4	4732.2	4736.4	4769.7	4713.4	4592.6	4475.9	4390.5	4338.4	4348.8	4355.0
25°	4886.4	4857.2	4867.6	4813.5	4628.0	4417.5	4248.8	4175.8	4155.0	4175.8	4190.4
27.5°	5048.9	5030.2	5023.9	4815.5	4475.9	4159.2	3967.5	3940.4	3959.1	4005.0	4027.9
30°	5224.0	5224.0	5190.6	4780.1	4267.5	3848.7	3682.0	3686.1	3750.7	3815.3	3838.3
32.5°	5392.7	5428.2	5324.0	4684.3	3998.7	3546.5	3419.4	3423.6	3479.9	3559.0	3579.9
35°	5532.3	5634.4	5438.6	4509.2	3682.0	3292.3	3196.5	3140.2	3142.3	3202.7	3219.4
37.5°	5724.1	5913.7	5505.3	4248.8	3344.4	3075.6	2967.3	2869.3	2804.7	2779.7	2779.7
40°	6057.4	6336.7	5521.9	3863.3	3025.6	2869.3	2715.1	2598.4	2473.4	2360.9	2340.0
42.5°	6622.1	6974.3	5488.6	3419.4	2738.0	2642.2	2492.2	2348.4	2175.4	2017.1	2004.6
45°	7622.3	7803.6	5399.0	2958.9	2481.7	2423.4	2277.5	2121.3	1937.9	1796.2	1785.8
47.5°	9224.7	8968.4	5280.2	2550.5	2248.4	2231.7	2119.2	1937.9	1754.5	1656.6	1646.2
50°	11564.8	10802.1	5263.5	2254.6	2060.8	2069.2	1977.5	1810.8	1650.3	1569.1	1556.6
52.5°	14382.0	13017.2	5374.0	2046.2	1896.2	1927.5	1881.6	1727.4	1585.7	1517.0	1504.5
55°	17115.9	15009.2	5440.7	1883.7	1742.0	1800.4	1806.6	1677.4	1548.2	1479.5	1471.1
57.5°	19335.1	16509.5	5144.8	1735.8	1608.7	1698.3	1744.1	1648.2	1529.5	1477.4	1469.0
60°	20879.1	17218.0	4302.9	1604.5	1510.7	1617.0	1721.2	1650.3	1575.3	1581.6	1585.7
62.5°	21370.9	16903.3	3227.7	1506.5	1444.0	1589.9	1758.7	1735.8	1658.7	1706.6	1714.9
65°	20556.2	15603.1	2340.0	1429.4	1385.7	1608.7	1871.2	1798.3	1629.5	1664.9	1664.9
67.5°	17828.5	13442.2	1821.2	1358.6	1319.0	1644.1	1983.7	1792.0	1560.7	1602.4	1564.9
70°	14142.4	10397.9	1517.0	1279.4	1248.2	1592.0	1994.1	1727.4	1479.5	1487.8	1416.9
72.5°	9385.2	6836.8	1304.4	1204.4	1139.8	1431.5	1908.7	1644.1	1400.3	1352.4	1281.5
75°	4598.8	3409.0	1137.7	1110.6	998.1	1246.1	1792.0	1564.9	1314.8	1239.8	1200.2
77.5°	1781.6	1450.3	971.0	991.9	868.9	1098.1	1637.8	1452.4	1202.3	1100.2	1069.0
80°	864.8	823.1	796.0	827.2	714.7	935.6	1496.1	1354.4	1098.1	985.6	939.8
82.5°	537.6	508.4	610.5	643.9	550.1	854.3	1419.0	1271.1	966.9	816.8	779.3
85°	273.0	291.7	408.4	439.7	393.8	679.3	1169.0	954.4	698.1	579.3	583.4
87.5°	104.2	139.6	214.6	231.3	210.5	358.4	643.9	556.4	448.0	304.2	281.3
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)