

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: P456487

Luminaire Tested: **GALN-SA7D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49552 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

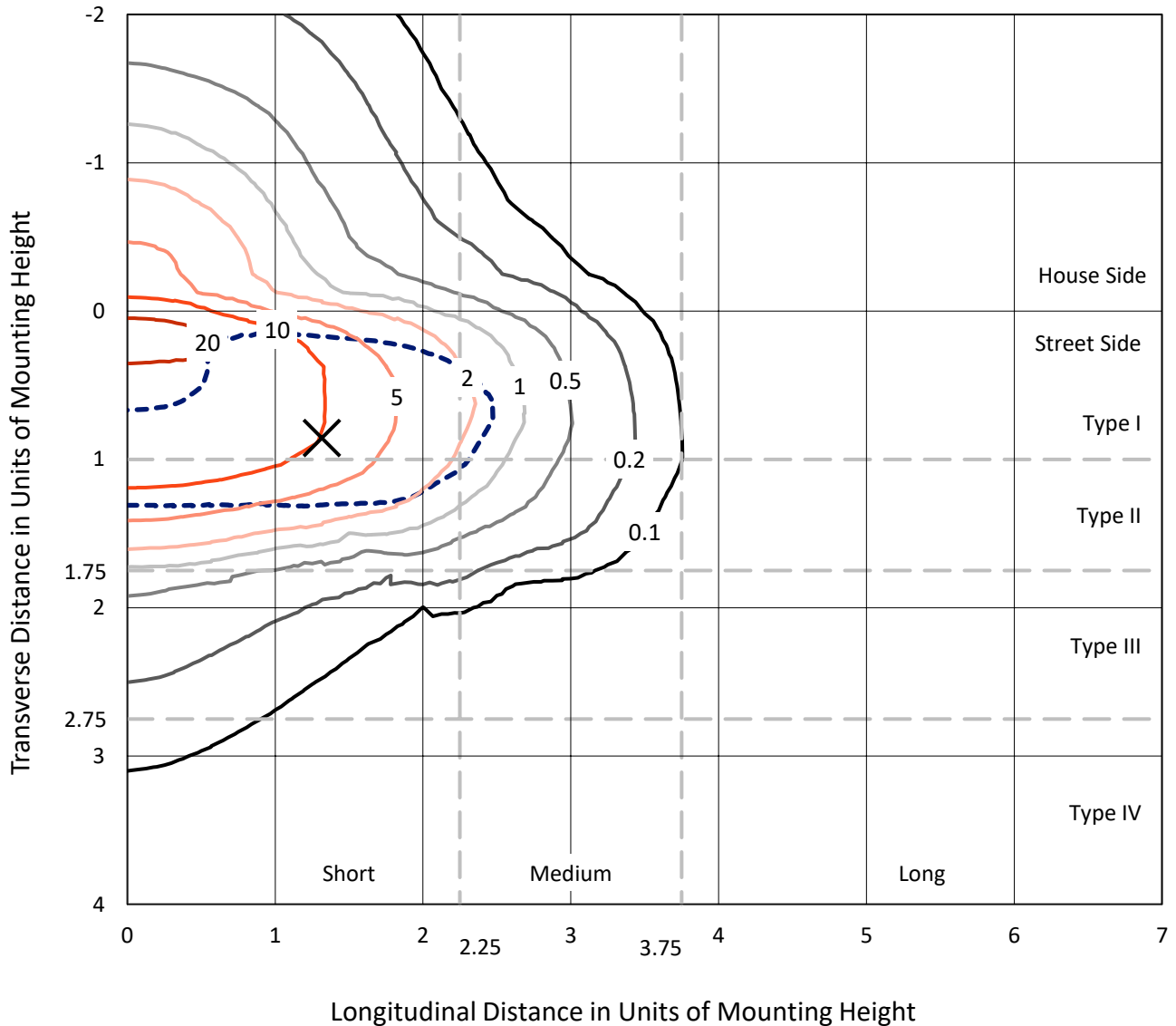
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

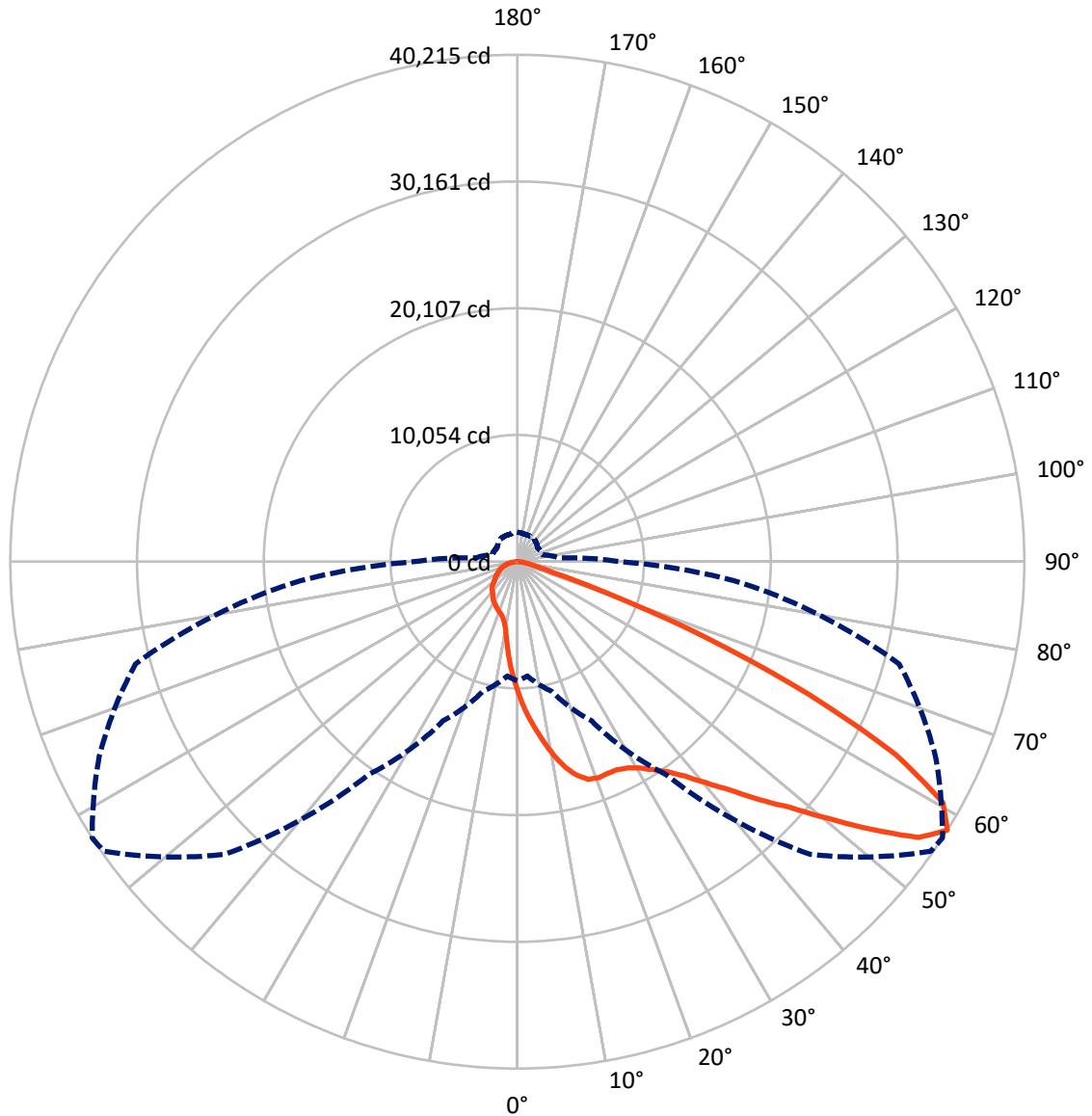
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7535.5	0.0	7535.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	42016.5	0.0	42016.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	49552.0	0.0	49552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.5	2.0
10°-20°	2948.6	6.0
20°-30°	4896.2	9.9
30°-40°	7375.2	14.9
40°-50°	11073.1	22.3
50°-60°	12411.6	25.0
60°-70°	7263.9	14.7
70°-80°	2148.6	4.3
80°-90°	434.3	0.9
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°	49552.0	100.0
0°-180°	49552.0	100.0

Coefficient of Utilization



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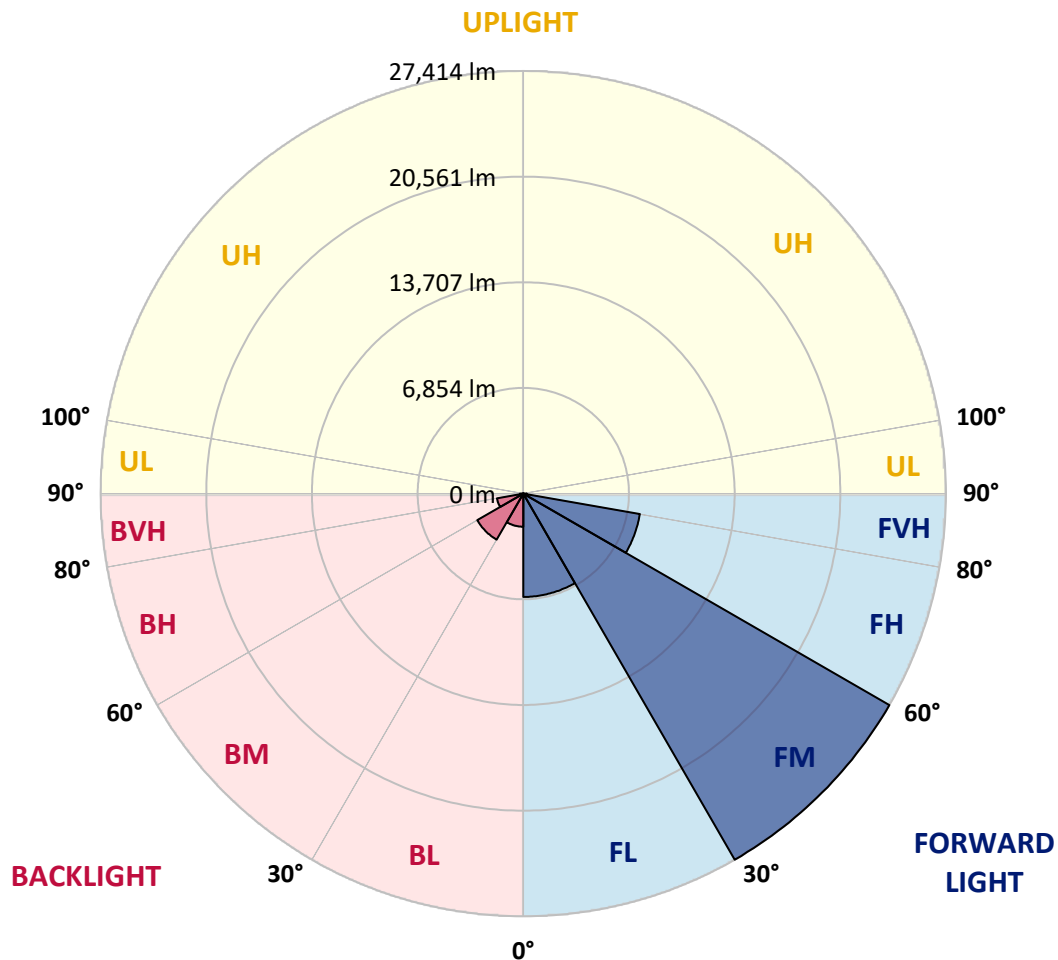
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6698.3	13.5			
FM	(30°-60°)	27414.3	55.3			
FH	(60°-80°)	7678.6	15.5			G4/12000
FVH	(80°-90°)	225.3	0.5			G3/500
BL	(0°-30°)	2147.1	4.3	B3/2500		
BM	(30°-60°)	3445.5	7.0	B3/5000		
BH	(60°-80°)	1733.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	209.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3
2.5°	12935.6	12794.5	12683.3	12585.7	12458.2	12113.7	11769.2	11763.8	11489.9	11066.7	10632.7
5°	15043.1	14853.3	14877.7	14573.9	14270.1	13771.0	13041.4	13003.4	12420.2	11628.2	10822.6
7.5°	16415.6	16418.3	16342.4	16168.8	15840.6	15273.7	14446.4	14259.2	13448.2	12246.6	11039.6
10°	16345.1	16418.3	16545.8	16695.0	16795.4	16516.0	15761.9	15534.1	14479.0	12995.3	11281.0
12.5°	15406.6	15520.5	15702.3	16076.6	16681.4	17142.6	16884.9	16700.4	15672.4	13741.2	11546.8
15°	14820.7	14888.5	14988.9	15241.1	15892.1	16996.1	17663.3	17565.7	16798.1	14584.7	11845.2
17.5°	14641.7	14709.5	14742.1	14896.7	15360.5	16491.6	17969.9	18143.4	17796.3	15360.5	12146.3
20°	14820.7	14853.3	14853.3	14945.5	15309.0	16195.9	17956.3	18306.2	18615.4	16290.9	12428.4
22.5°	15290.0	15303.5	15284.5	15317.1	15588.3	16277.3	17828.8	18262.8	19277.2	17080.2	12648.1
25°	16052.2	16073.9	15949.1	15873.1	16071.2	16635.3	17899.3	18298.1	19795.3	17834.2	12794.5
27.5°	16917.4	16944.6	16792.7	16616.3	16708.6	17077.5	18176.0	18534.0	20183.2	18577.4	12886.8
30°	17978.0	17988.8	17733.9	17522.3	17462.6	17736.6	18648.0	18981.6	20666.0	19453.6	13025.1
32.5°	19063.0	19144.3	18816.1	18517.8	18417.4	18501.5	19345.1	19667.8	21241.0	20394.8	13247.5
35°	20538.5	20552.1	20158.8	19795.3	19464.4	19572.9	20237.4	20470.7	22035.8	21482.4	13562.2
37.5°	22380.3	22505.0	21962.5	21284.4	20877.6	20720.3	21317.0	21572.0	23150.6	22817.0	14036.8
40°	24425.4	24471.5	24007.7	23584.6	22841.4	22385.7	22798.0	23074.6	24525.8	24409.2	14587.5
42.5°	25711.1	25811.5	25846.7	25803.4	25244.6	24479.7	24637.0	24767.2	26153.3	25903.7	15151.6
45°	26145.1	26294.3	26798.8	27867.5	27927.2	27173.1	26807.0	26931.7	27927.2	27411.8	15691.4
47.5°	25426.3	25681.3	26611.7	28803.3	30444.3	30501.3	29397.3	29123.4	29543.8	28662.3	16082.0
50°	23568.3	23622.6	25046.6	28220.1	31624.2	33683.0	32541.0	32031.1	31079.0	29587.2	16350.5
52.5°	20693.1	20755.5	21949.0	25510.4	30897.3	35907.2	36219.1	35307.7	32638.7	30306.0	16526.8
55°	15360.5	15721.2	17034.1	20476.1	27452.5	35698.3	39143.1	38625.0	34523.8	30875.6	16803.5
57.5°	9444.7	9113.8	10670.7	13931.0	20647.0	32828.5	40046.3	40214.5	36598.8	31353.0	17267.3
60°	4345.3	4410.4	5053.3	7185.2	12585.7	25681.3	37719.1	38782.3	37746.2	31336.7	17384.0
62.5°	2994.5	2934.8	2772.1	3154.6	5739.5	16242.0	31860.2	33661.3	35446.0	30362.9	16920.1
65°	2677.2	2617.5	2302.9	2197.1	2636.5	7079.4	23161.4	25434.5	29844.9	27905.5	15764.6
67.5°	2500.9	2419.5	2094.0	1887.9	1882.4	2818.2	13657.1	16393.9	22136.1	23592.7	13659.8
70°	2316.4	2251.3	1928.5	1700.7	1603.0	1771.2	6002.6	7857.9	14373.2	17001.5	10640.9
72.5°	2132.0	2056.0	1765.8	1521.7	1394.2	1326.4	2300.1	2991.8	8121.0	10193.3	6523.4
75°	1863.4	1825.5	1578.6	1377.9	1239.6	1071.4	1459.3	1665.4	3884.2	4681.7	3273.9
77.5°	1630.2	1589.5	1402.3	1204.3	1104.0	870.7	1036.1	1131.1	1638.3	1898.7	1478.3
80°	1193.5	1234.2	1182.6	1063.3	984.6	683.5	697.1	775.8	973.8	1076.8	903.2
82.5°	756.8	832.7	911.4	819.2	745.9	539.8	482.8	512.6	664.5	705.2	401.4
85°	317.4	322.8	528.9	499.1	425.9	320.1	290.2	306.5	355.3	371.6	187.2
87.5°	122.1	119.3	187.2	173.6	132.9	92.2	92.2	103.1	141.0	130.2	59.7
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°	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3	10410.3
2.5°	10445.6	10253.0	9870.5	9395.9	9048.7	8658.1	8313.6	8066.8	7974.5	7931.1	7849.8
5°	10437.4	10057.7	9265.7	8435.7	7768.4	7084.9	6507.1	6132.8	6100.3	5850.7	5826.3
7.5°	10440.1	9859.7	8598.4	7377.8	6360.6	5660.8	5183.5	5058.7	4909.5	4871.5	4890.5
10°	10448.3	9607.4	7882.3	6330.8	5346.2	4887.8	4708.8	4660.0	4665.4	4681.7	4684.4
12.5°	10459.1	9363.3	7139.1	5536.1	4776.6	4586.7	4567.7	4611.1	4657.2	4692.5	4700.6
15°	10472.7	9083.9	6414.9	4895.9	4491.8	4475.5	4537.9	4611.1	4676.2	4727.8	4735.9
17.5°	10456.4	8758.4	5807.3	4502.6	4334.5	4413.1	4516.2	4608.4	4668.1	4716.9	4722.3
20°	10418.4	8395.0	5221.4	4226.0	4236.8	4364.3	4475.5	4562.3	4627.4	4651.8	4670.8
22.5°	10272.0	7961.0	4711.5	4011.7	4120.2	4296.5	4429.4	4480.9	4407.7	4356.2	4369.7
25°	10022.4	7396.8	4236.8	3838.1	4014.4	4201.6	4337.2	4212.4	4152.7	4131.0	4141.9
27.5°	9710.5	6778.4	3878.8	3656.4	3878.8	4095.8	4057.8	4036.1	4009.0	3973.7	3981.8
30°	9374.2	6173.5	3575.0	3515.3	3732.3	3857.1	3873.4	3908.6	3878.8	3824.5	3846.2
32.5°	9062.2	5603.9	3344.4	3396.0	3629.2	3610.2	3732.3	3773.0	3634.7	3452.9	3461.1
35°	8796.4	5075.0	3170.8	3279.3	3452.9	3461.1	3583.1	3442.1	3292.9	3206.1	3211.5
37.5°	8595.7	4662.7	3056.9	3179.0	3227.8	3330.9	3265.8	3192.5	3173.5	3113.9	3116.6
40°	8476.3	4301.9	2983.7	3100.3	3092.2	3162.7	2953.8	3027.1	3054.2	3035.2	3037.9
42.5°	8357.0	4046.9	2907.7	2991.8	2989.1	2850.8	2804.7	2867.0	2937.6	2945.7	2940.3
45°	8262.1	3848.9	2829.1	2826.4	2880.6	2663.6	2650.0	2688.0	2788.4	2837.2	2834.5
47.5°	8156.3	3683.5	2709.7	2633.8	2650.0	2547.0	2525.3	2541.5	2663.6	2742.3	2764.0
50°	8023.4	3518.0	2560.5	2457.5	2389.7	2438.5	2443.9	2446.6	2568.7	2658.2	2677.2
52.5°	7917.6	3393.3	2389.7	2313.7	2232.3	2340.8	2381.5	2386.9	2460.2	2533.4	2547.0
55°	7980.0	3322.7	2221.5	2167.2	2094.0	2240.5	2319.1	2330.0	2346.3	2400.5	2408.6
57.5°	8167.1	3339.0	2085.9	2015.3	1961.1	2121.1	2254.0	2262.2	2251.3	2316.4	2327.3
60°	8224.1	3330.9	1985.5	1847.2	1814.6	1993.6	2159.1	2175.4	2172.7	2267.6	2286.6
62.5°	7985.4	3227.8	1885.1	1706.1	1684.4	1863.4	2026.2	2091.3	2104.8	2240.5	2264.9
65°	7423.9	3016.2	1752.2	1556.9	1556.9	1725.1	1898.7	1988.2	2026.2	2207.9	2235.0
67.5°	6683.4	2766.7	1616.6	1429.5	1424.0	1592.2	1763.1	1855.3	1915.0	2161.8	2178.1
70°	5546.9	2430.3	1448.4	1291.1	1291.1	1443.0	1597.6	1708.8	1795.6	2075.0	2075.0
72.5°	3800.1	2020.8	1245.0	1133.8	1136.5	1277.6	1434.9	1559.6	1662.7	1901.4	1906.8
75°	2403.2	1578.6	1022.6	965.6	976.5	1109.4	1272.1	1402.3	1608.5	1879.7	1887.9
77.5°	1277.6	1109.4	813.7	800.2	813.7	935.8	1117.5	1296.5	1613.9	1630.2	1603.0
80°	827.3	786.6	642.8	615.7	621.1	754.1	995.5	1231.4	1296.5	1312.8	1253.1
82.5°	450.3	499.1	455.7	428.6	428.6	588.6	849.0	979.2	930.4	773.0	737.8
85°	192.6	233.3	236.0	206.1	198.0	363.5	569.6	534.3	496.4	474.7	469.3
87.5°	54.2	75.9	75.9	57.0	43.4	100.4	113.9	32.5	0.0	2.7	5.4
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)