

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: P452543

Luminaire Tested: **GALN-SA3C-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452543  
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-SA3C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19301 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

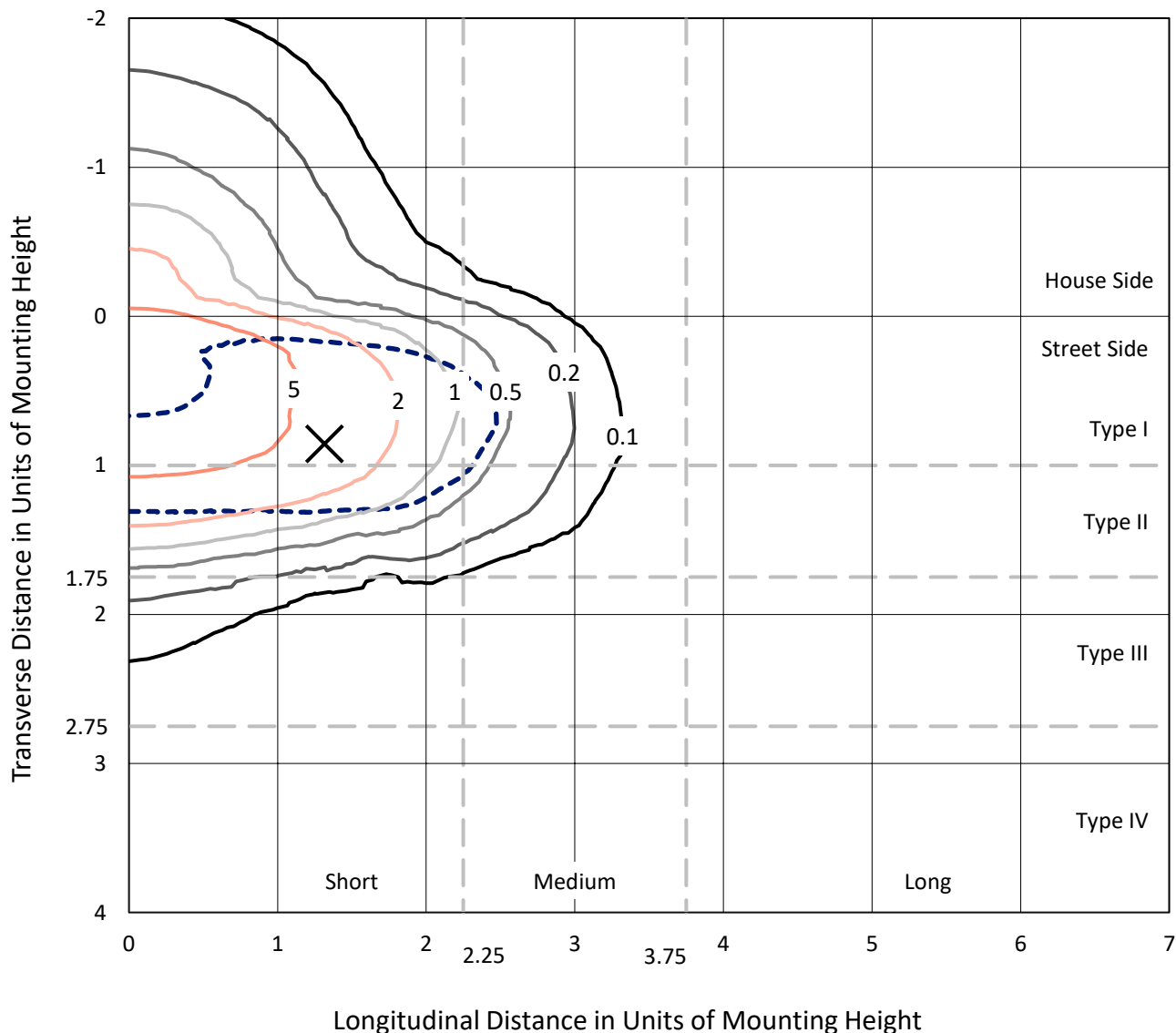
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

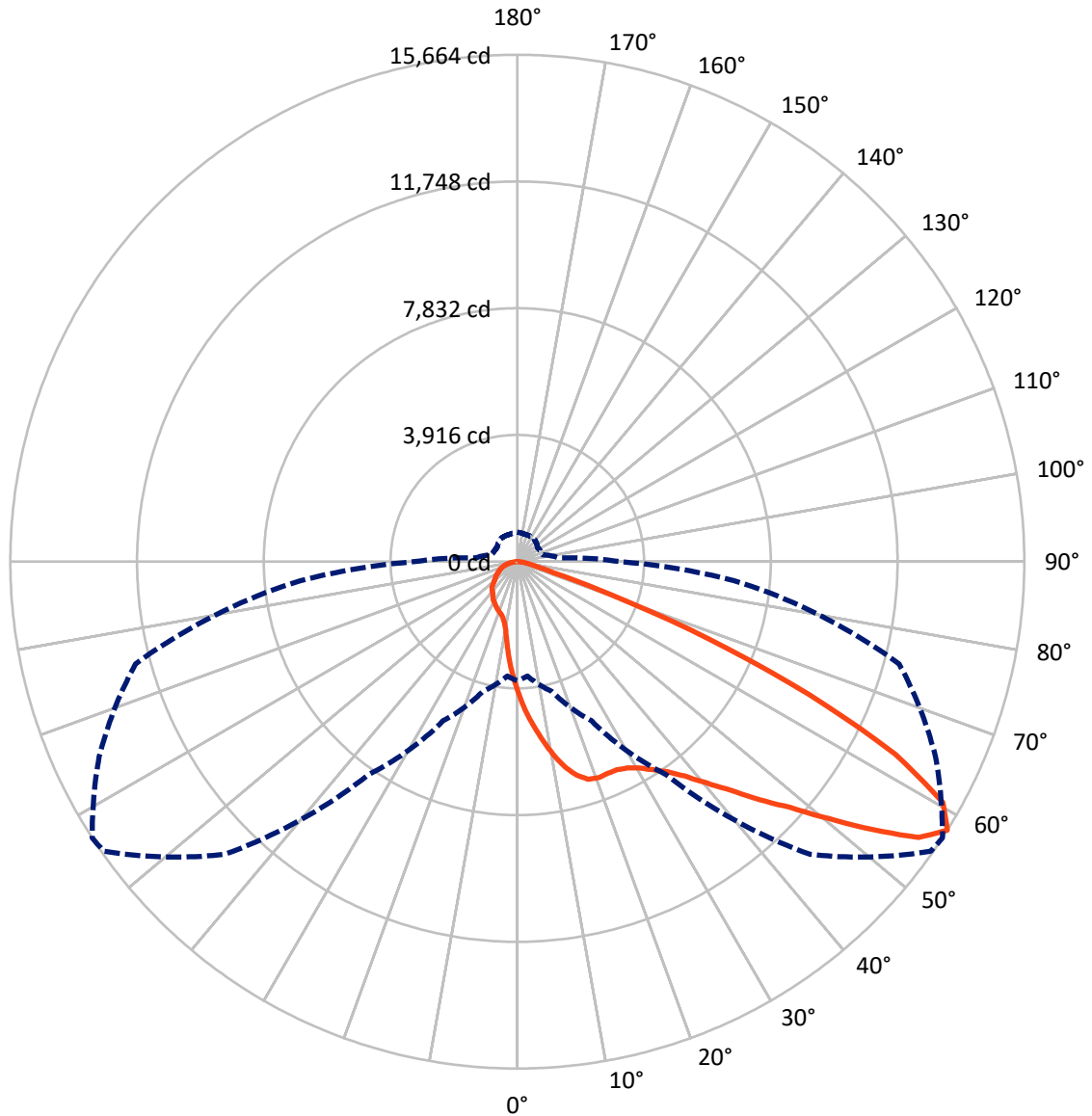
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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
<b>House Side</b>	Lumens	2935.1	0.0	2935.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	16365.9	0.0	16365.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	19301.0	0.0	19301.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.7	2.0
10°-20°	1148.5	6.0
20°-30°	1907.1	9.9
30°-40°	2872.7	14.9
40°-50°	4313.1	22.3
50°-60°	4834.4	25.0
60°-70°	2829.3	14.7
70°-80°	836.9	4.3
80°-90°	169.2	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°	19301.0	100.0
0°-180°	19301.0	100.0

**Coefficient of Utilization**



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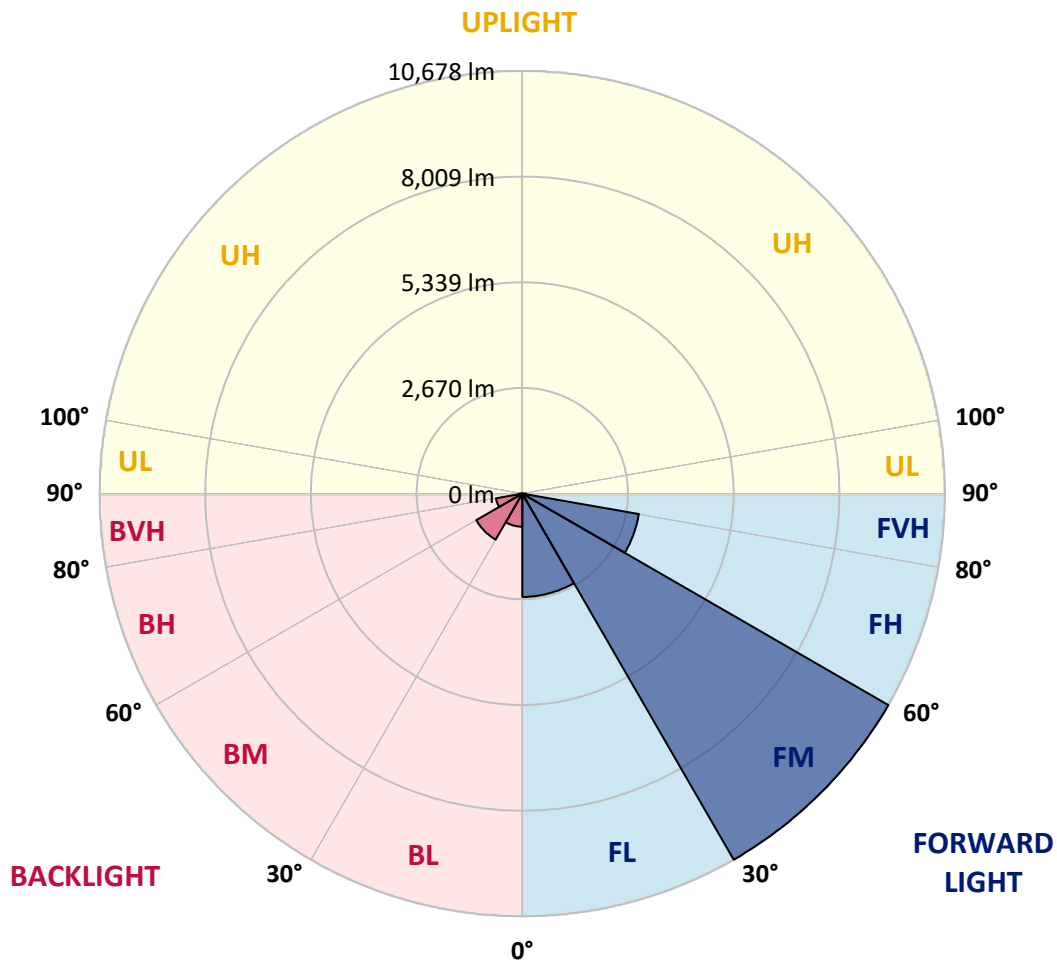
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2609.1	13.5			
FM	(30°-60°)	10678.2	55.3			
FH	(60°-80°)	2990.9	15.5			G2/5000
FVH	(80°-90°)	87.8	0.5			G1/100
BL	(0°-30°)	836.3	4.3	B2/1000		
BM	(30°-60°)	1342.1	7.0	B2/2500		
BH	(60°-80°)	675.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	81.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9
2.5°	5038.5	4983.6	4940.3	4902.2	4852.6	4718.4	4584.2	4582.1	4475.4	4310.6	4141.6
5°	5859.5	5785.5	5795.0	5676.7	5558.3	5363.9	5079.7	5065.0	4837.8	4529.3	4215.5
7.5°	6394.1	6395.1	6365.5	6297.9	6170.1	5949.3	5627.0	5554.1	5238.2	4770.2	4300.0
10°	6366.6	6395.1	6444.8	6502.9	6542.0	6433.1	6139.4	6050.7	5639.7	5061.8	4394.1
12.5°	6001.0	6045.4	6116.2	6262.0	6497.6	6677.2	6576.8	6505.0	6104.6	5352.3	4497.6
15°	5772.8	5799.2	5838.3	5936.6	6190.1	6620.1	6880.1	6842.0	6543.0	5680.9	4613.8
17.5°	5703.1	5729.5	5742.2	5802.4	5983.1	6423.6	6999.4	7067.1	6931.8	5983.1	4731.1
20°	5772.8	5785.5	5785.5	5821.4	5963.0	6308.5	6994.2	7130.4	7250.9	6345.5	4841.0
22.5°	5955.6	5960.9	5953.5	5966.2	6071.8	6340.2	6944.5	7113.5	7508.7	6652.9	4926.5
25°	6252.5	6260.9	6212.3	6182.7	6259.9	6479.6	6972.0	7127.3	7710.5	6946.6	4983.6
27.5°	6589.5	6600.1	6540.9	6472.2	6508.2	6651.8	7079.7	7219.2	7861.6	7236.1	5019.5
30°	7002.6	7006.8	6907.5	6825.1	6801.9	6908.6	7263.6	7393.5	8049.6	7577.4	5073.4
32.5°	7425.2	7456.9	7329.1	7212.9	7173.8	7206.5	7535.1	7660.8	8273.6	7944.0	5160.0
35°	8000.0	8005.2	7852.0	7710.5	7581.6	7623.8	7882.7	7973.5	8583.2	8367.6	5282.6
37.5°	8717.3	8765.9	8554.6	8290.5	8132.0	8070.7	8303.2	8402.5	9017.4	8887.4	5467.5
40°	9514.0	9531.9	9351.2	9186.4	8896.9	8719.4	8880.0	8987.8	9553.0	9507.6	5682.0
42.5°	10014.7	10053.8	10067.6	10050.7	9833.0	9535.1	9596.4	9647.1	10187.0	10089.8	5901.7
45°	10183.8	10241.9	10438.4	10854.7	10877.9	10584.2	10441.6	10490.2	10877.9	10677.2	6112.0
47.5°	9903.8	10003.1	10365.5	11219.2	11858.4	11880.6	11450.6	11343.8	11507.6	11164.2	6264.1
50°	9180.1	9201.2	9755.9	10992.0	12318.0	13119.9	12675.1	12476.4	12105.6	11524.5	6368.7
52.5°	8060.2	8084.5	8549.4	9936.6	12034.8	13986.2	14107.7	13752.7	12713.1	11804.5	6437.4
55°	5983.1	6123.6	6634.9	7975.7	10693.0	13904.8	15246.6	15044.8	13447.4	12026.4	6545.1
57.5°	3678.8	3549.9	4156.3	5426.3	8042.2	12787.0	15598.4	15663.9	14255.6	12212.3	6725.8
60°	1692.5	1717.9	1968.3	2798.7	4902.2	10003.1	14692.0	15106.1	14702.5	12206.0	6771.2
62.5°	1166.4	1143.2	1079.8	1228.7	2235.6	6326.4	12409.9	13111.4	13806.6	11826.7	6590.6
65°	1042.8	1019.5	897.0	855.8	1026.9	2757.5	9021.6	9907.0	11624.9	10869.5	6140.5
67.5°	974.1	942.4	815.6	735.3	733.2	1097.7	5319.6	6385.6	8622.3	9189.6	5320.6
70°	902.3	876.9	751.2	662.4	624.4	689.9	2338.1	3060.7	5598.5	6622.3	4144.7
72.5°	830.4	800.8	687.8	592.7	543.1	516.6	895.9	1165.3	3163.2	3970.4	2540.9
75°	725.8	711.0	614.9	536.7	482.8	417.3	568.4	648.7	1512.9	1823.6	1275.2
77.5°	635.0	619.1	546.2	469.1	430.0	339.1	403.6	440.6	638.1	739.6	575.8
80°	464.9	480.7	460.6	414.2	383.5	266.2	271.5	302.2	379.3	419.4	351.8
82.5°	294.8	324.4	355.0	319.1	290.5	210.2	188.1	199.7	258.8	274.7	156.4
85°	123.6	125.7	206.0	194.4	165.9	124.7	113.0	119.4	138.4	144.7	72.9
87.5°	47.5	46.5	72.9	67.6	51.8	35.9	35.9	40.1	54.9	50.7	23.2
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°	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9
2.5°	4068.7	3993.6	3844.7	3659.8	3524.5	3372.4	3238.2	3142.1	3106.2	3089.3	3057.6
5°	4065.5	3917.6	3609.1	3285.8	3025.9	2759.6	2534.6	2388.8	2376.1	2278.9	2269.4
7.5°	4066.5	3840.4	3349.2	2873.7	2477.5	2205.0	2019.0	1970.4	1912.3	1897.5	1904.9
10°	4069.7	3742.2	3070.2	2465.9	2082.4	1903.8	1834.1	1815.1	1817.2	1823.6	1824.6
12.5°	4073.9	3647.1	2780.8	2156.4	1860.5	1786.6	1779.2	1796.1	1814.0	1827.8	1830.9
15°	4079.2	3538.3	2498.7	1907.0	1749.6	1743.3	1767.6	1796.1	1821.4	1841.5	1844.7
17.5°	4072.9	3411.5	2262.0	1753.8	1688.3	1719.0	1759.1	1795.0	1818.3	1837.3	1839.4
20°	4058.1	3269.9	2033.8	1646.1	1650.3	1699.9	1743.3	1777.1	1802.4	1811.9	1819.3
22.5°	4001.0	3100.9	1835.2	1562.6	1604.9	1673.5	1725.3	1745.4	1716.8	1696.8	1702.1
25°	3903.8	2881.1	1650.3	1495.0	1563.6	1636.5	1689.4	1640.8	1617.5	1609.1	1613.3
27.5°	3782.3	2640.2	1510.8	1424.2	1510.8	1595.3	1580.6	1572.1	1561.5	1547.8	1551.0
30°	3651.3	2404.6	1392.5	1369.2	1453.8	1502.4	1508.7	1522.4	1510.8	1489.7	1498.1
32.5°	3529.8	2182.8	1302.7	1322.8	1413.6	1406.2	1453.8	1469.6	1415.7	1344.9	1348.1
35°	3426.3	1976.7	1235.1	1277.3	1344.9	1348.1	1395.7	1340.7	1282.6	1248.8	1250.9
37.5°	3348.1	1816.2	1190.7	1238.2	1257.3	1297.4	1272.0	1243.5	1236.1	1212.9	1213.9
40°	3301.6	1675.6	1162.2	1207.6	1204.4	1231.9	1150.5	1179.1	1189.6	1182.2	1183.3
42.5°	3255.1	1576.3	1132.6	1165.3	1164.3	1110.4	1092.4	1116.7	1144.2	1147.4	1145.3
45°	3218.2	1499.2	1101.9	1100.9	1122.0	1037.5	1032.2	1047.0	1086.1	1105.1	1104.1
47.5°	3177.0	1434.8	1055.5	1025.9	1032.2	992.1	983.6	990.0	1037.5	1068.1	1076.6
50°	3125.2	1370.3	997.4	957.2	930.8	949.8	951.9	953.0	1000.5	1035.4	1042.8
52.5°	3084.0	1321.7	930.8	901.2	869.5	911.8	927.6	929.7	958.3	986.8	992.1
55°	3108.3	1294.2	865.3	844.2	815.6	872.7	903.3	907.5	913.9	935.0	938.2
57.5°	3181.2	1300.6	812.5	785.0	763.9	826.2	878.0	881.1	876.9	902.3	906.5
60°	3203.4	1297.4	773.4	719.5	706.8	776.5	841.0	847.3	846.3	883.2	890.6
62.5°	3110.4	1257.3	734.3	664.6	656.1	725.8	789.2	814.6	819.9	872.7	882.2
65°	2891.7	1174.8	682.5	606.4	606.4	671.9	739.6	774.4	789.2	860.0	870.6
67.5°	2603.3	1077.6	629.7	556.8	554.7	620.2	686.7	722.7	745.9	842.0	848.4
70°	2160.6	946.6	564.2	502.9	502.9	562.1	622.3	665.6	699.4	808.2	808.2
72.5°	1480.2	787.1	484.9	441.6	442.7	497.6	558.9	607.5	647.6	740.6	742.7
75°	936.1	614.9	398.3	376.1	380.3	432.1	495.5	546.2	626.5	732.2	735.3
77.5°	497.6	432.1	317.0	311.7	317.0	364.5	435.3	505.0	628.6	635.0	624.4
80°	322.2	306.4	250.4	239.8	241.9	293.7	387.7	479.7	505.0	511.4	488.1
82.5°	175.4	194.4	177.5	166.9	166.9	229.3	330.7	381.4	362.4	301.1	287.4
85°	75.0	90.9	91.9	80.3	77.1	141.6	221.9	208.1	193.3	184.9	182.8
87.5°	21.1	29.6	29.6	22.2	16.9	39.1	44.4	12.7	0.0	1.1	2.1
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)