

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: P454634

Luminaire Tested: **GALN-SA5D-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35218 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

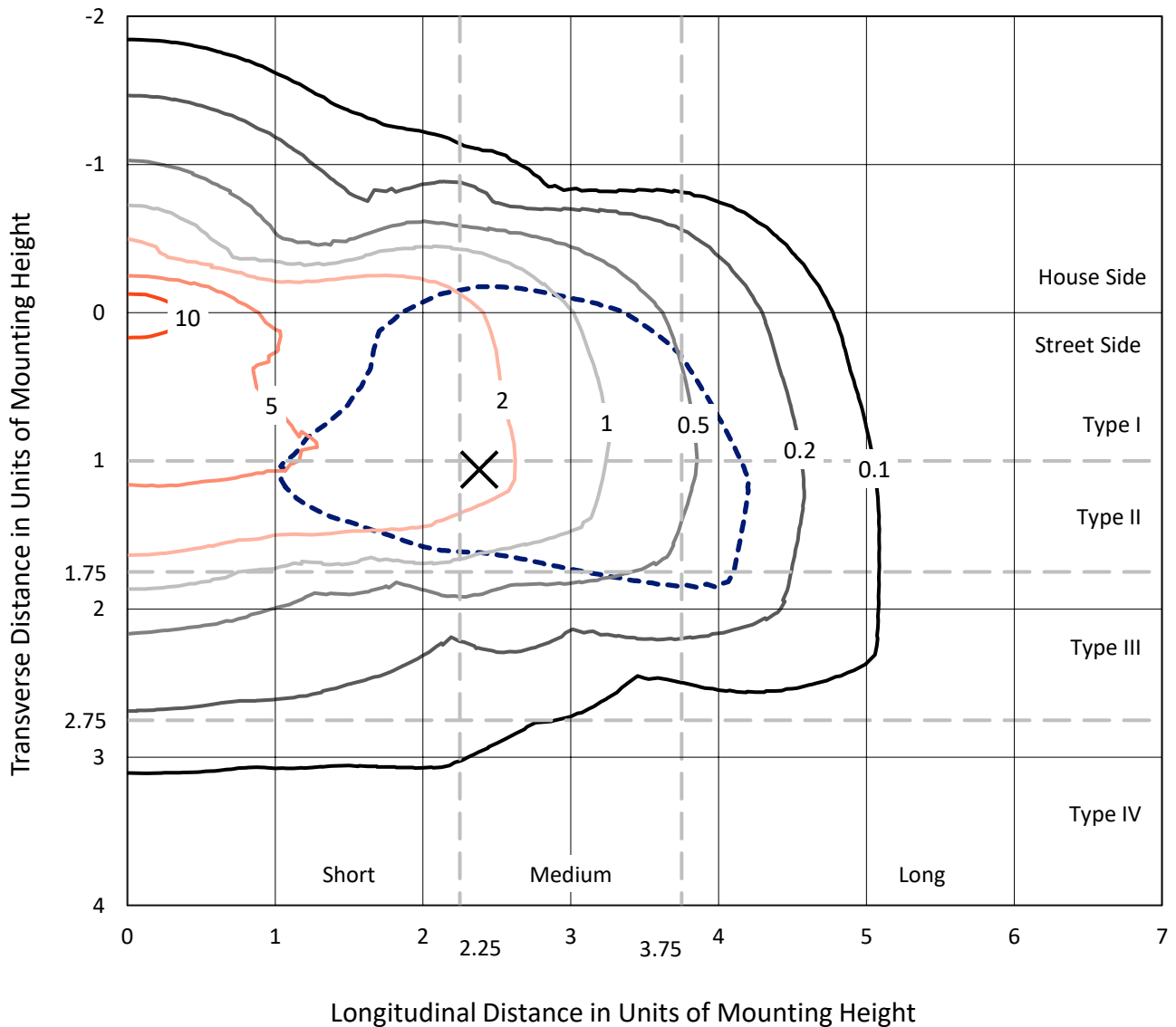
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

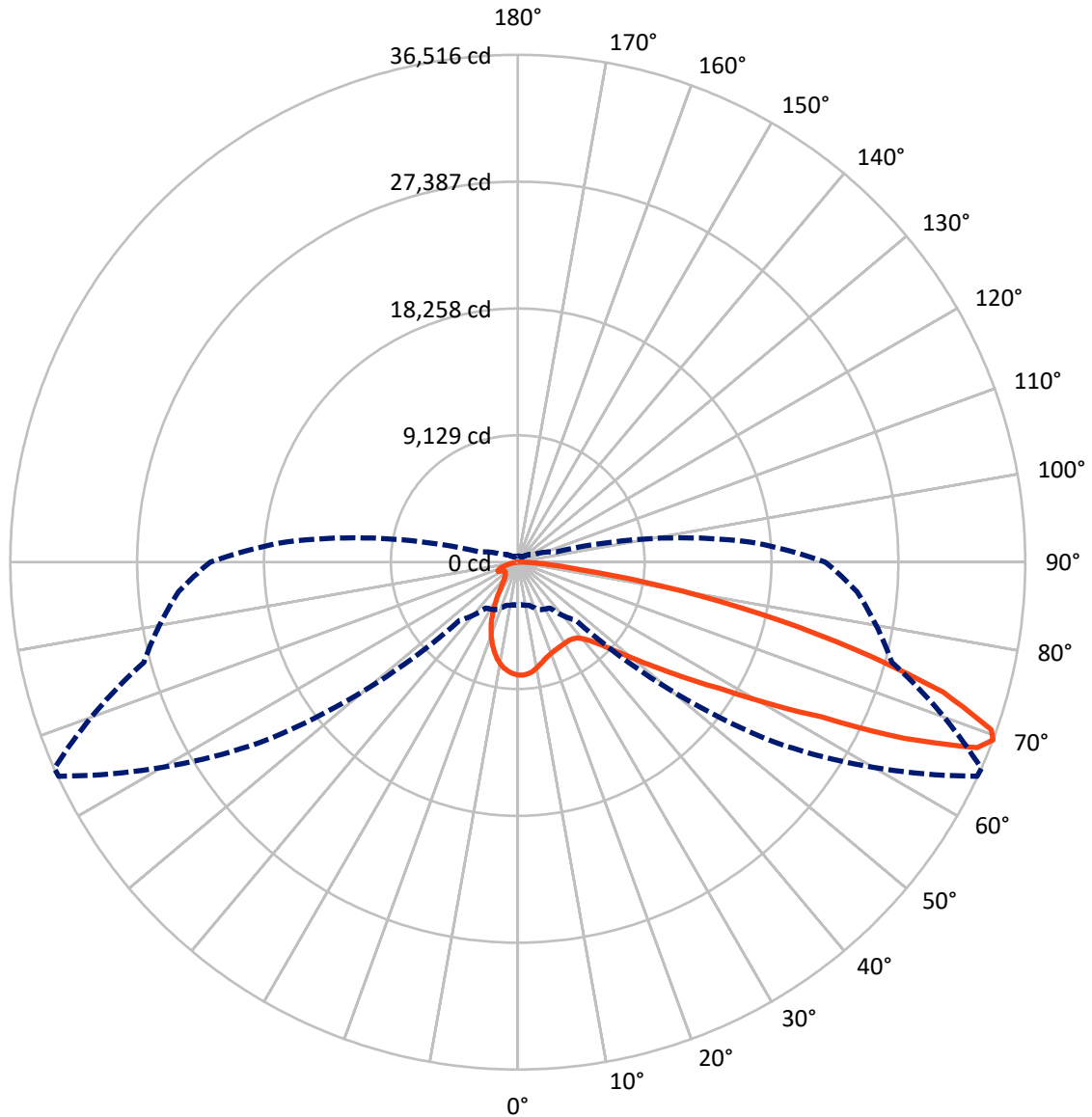
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6623.2	0.0	6623.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28594.8	0.0	28594.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	35218.0	0.0	35218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	706.2	2.0
10°-20°	1675.2	4.8
20°-30°	2280.5	6.5
30°-40°	3064.5	8.7
40°-50°	4575.8	13.0
50°-60°	7278.6	20.7
60°-70°	8952.3	25.4
70°-80°	5824.8	16.5
80°-90°	860.1	2.4
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°	35218.0	100.0
0°-180°	35218.0	100.0



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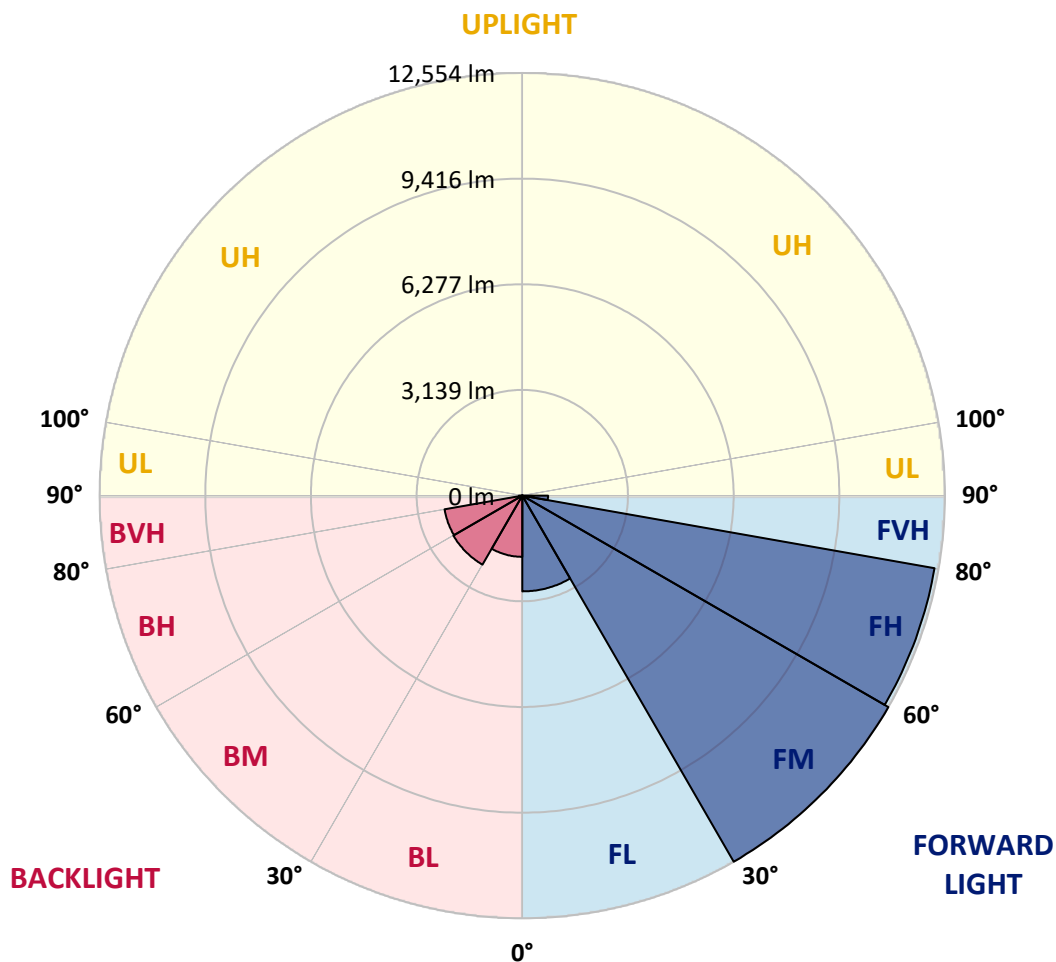
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2843.8	8.1			
FM	(30°-60°)	12554.2	35.6			
FH	(60°-80°)	12432.1	35.3			G5
FVH	(80°-90°)	764.7	2.2			G5
BL	(0°-30°)	1818.1	5.2	B3/2500		
BM	(30°-60°)	2364.8	6.7	B2/2500		
BH	(60°-80°)	2344.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	95.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	7848.1	7879.3	7914.4	7953.4	8027.5	8068.5	8097.7	8130.9	8134.8	8152.3	8138.7
5°	7268.8	7305.9	7358.5	7432.7	7543.8	7717.4	7896.8	8043.1	8060.7	8142.6	8166.0
7.5°	6785.1	6806.6	6849.5	6968.5	7126.5	7319.5	7580.9	7877.3	7920.2	8115.3	8183.5
10°	6391.2	6412.6	6463.3	6586.2	6742.2	6984.1	7270.8	7660.8	7695.9	8031.4	8187.4
12.5°	6096.7	6116.2	6170.8	6291.7	6471.1	6697.4	7013.3	7426.8	7477.5	7920.2	8150.4
15°	5872.4	5909.5	5954.3	6053.8	6243.0	6461.4	6767.6	7212.3	7253.2	7803.2	8125.0
17.5°	5776.8	5794.4	5825.6	5917.3	6055.7	6270.3	6578.4	7044.5	7093.3	7721.3	8119.2
20°	5780.7	5798.3	5804.1	5854.8	5954.3	6139.6	6443.8	6911.9	6970.4	7649.1	8128.9
22.5°	5913.4	5915.3	5893.9	5876.3	5915.3	6069.4	6348.3	6812.5	6880.7	7617.9	8136.7
25°	6118.1	6153.2	6122.0	6040.1	5968.0	6042.1	6311.2	6757.8	6822.2	7573.1	8127.0
27.5°	6449.7	6455.5	6430.2	6319.0	6131.8	6077.2	6295.6	6716.9	6771.5	7539.9	8078.2
30°	6894.4	6876.8	6853.4	6730.5	6436.0	6211.8	6328.8	6679.8	6736.4	7491.2	8019.7
32.5°	7344.9	7399.5	7378.0	7233.7	6851.5	6473.1	6436.0	6675.9	6722.7	7454.1	7955.3
35°	7822.7	7848.1	7949.5	7875.4	7483.4	6896.3	6636.9	6736.4	6773.4	7456.1	7910.5
37.5°	8197.2	8265.4	8503.4	8567.7	8199.1	7456.1	6962.6	6908.0	6923.6	7551.6	7928.0
40°	8649.6	8766.7	9072.9	9336.2	9094.3	8183.5	7516.5	7225.9	7245.4	7781.8	8043.1
42.5°	9223.0	9305.0	9716.5	10073.4	10034.4	9145.0	8187.4	7746.7	7756.4	8240.1	8364.9
45°	9893.9	10011.0	10473.2	11009.5	11101.2	10233.3	9156.7	8534.6	8528.7	8951.9	8965.6
47.5°	10752.1	10824.2	11282.6	11867.7	12238.2	11600.5	10332.8	9665.8	9603.4	9989.5	9878.3
50°	11542.0	11655.1	12002.2	12641.9	13564.4	13201.7	11879.4	11132.4	10986.1	11346.9	11159.7
52.5°	11873.5	11992.5	12285.0	13078.8	14701.5	15272.9	13843.3	12881.8	12638.0	12915.0	12846.7
55°	11298.2	11452.3	11725.3	12690.7	15200.8	17662.1	16491.9	14904.3	14726.8	14607.9	14627.4
57.5°	9751.6	9897.9	10266.5	11331.3	14604.0	19395.9	20273.5	17504.1	17123.8	16575.7	16669.3
60°	7422.9	7514.6	7705.7	8885.6	12835.0	19846.4	24568.1	20790.4	20548.5	18535.8	18602.1
62.5°	5271.7	5375.1	5507.7	6096.7	9396.6	18576.8	27930.5	25379.5	24515.5	20566.1	20501.7
65°	4280.9	4210.7	4370.7	4645.7	5513.5	14397.2	28687.2	31749.2	30559.5	23240.0	22346.7
67.5°	3520.3	3446.2	3604.2	4093.7	4193.2	8357.1	25960.6	35883.9	35645.9	26147.9	24221.0
69°	3116.6	3077.6	3216.1	3773.9	4025.5	5934.8	22615.9	36459.2	36515.8	27862.2	24509.6
70°	2808.5	2824.1	2958.6	3612.0	3949.4	4893.3	19329.6	35665.4	36145.2	28718.4	24197.6
72.5°	2067.3	2100.5	2287.7	2991.8	3877.2	4152.2	11503.0	31152.4	32000.8	28769.1	22136.1
75°	1445.2	1429.6	1595.4	2252.6	3662.7	4115.2	6755.9	24092.2	25053.8	24866.5	18600.2
77.5°	945.9	971.3	1103.9	1591.5	3081.5	4084.0	4403.8	17092.6	17716.7	16630.3	11001.7
80°	667.0	665.1	739.2	1086.3	2285.8	3924.0	3606.1	10773.5	10615.6	6535.5	3262.9
82.5°	382.3	409.6	495.4	764.5	1529.0	3454.0	3317.5	5152.7	4704.2	1862.6	1101.9
85°	212.6	222.3	294.5	462.2	893.2	2601.7	2896.2	2344.3	2211.7	778.2	473.9
87.5°	68.3	74.1	122.9	234.0	405.7	1228.7	1640.2	1082.4	998.6	280.8	191.1
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°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	8144.5	8167.9	8105.5	8045.1	7990.4	7914.4	7846.1	7789.6	7750.6	7744.7	7725.2
5°	8171.8	8173.8	8054.8	7894.9	7738.9	7567.2	7389.7	7263.0	7144.0	7077.7	7044.5
7.5°	8191.3	8173.8	7959.2	7699.8	7399.5	7087.4	6775.4	6525.8	6332.7	6256.6	6285.9
10°	8183.5	8128.9	7814.9	7399.5	6962.6	6496.5	6047.9	5696.9	5375.1	5209.3	5213.2
12.5°	8140.6	8050.9	7600.4	7062.1	6420.4	5796.3	5109.8	4635.9	4263.4	4043.0	3974.7
15°	8103.6	7947.5	7348.8	6603.8	5806.1	4914.8	4078.1	3493.0	3181.0	3007.4	3005.4
17.5°	8064.6	7848.1	7073.8	6118.1	5100.1	3953.3	3075.6	2629.0	2482.8	2500.3	2471.0
20°	8023.6	7731.0	6787.1	5577.9	4240.0	2948.9	2303.3	2121.9	2162.9	2242.9	2254.6
22.5°	7976.8	7606.2	6478.9	4983.1	3335.0	2219.5	1868.4	1841.1	1946.4	2071.2	2088.8
25°	7904.6	7450.2	6090.8	4360.9	2572.5	1788.4	1636.3	1655.8	1759.2	1864.5	1876.2
27.5°	7803.2	7257.1	5698.8	3584.7	1932.8	1534.9	1495.9	1521.2	1572.0	1636.3	1651.9
30°	7666.7	7038.7	5248.3	2913.8	1548.6	1408.1	1392.5	1406.2	1435.4	1462.7	1470.5
32.5°	7530.2	6828.1	4793.9	2231.2	1380.8	1324.3	1308.7	1308.7	1308.7	1312.6	1314.5
35°	7403.4	6629.1	4306.3	1737.7	1293.1	1258.0	1236.5	1213.1	1209.2	1195.5	1195.5
37.5°	7333.2	6447.7	3787.5	1454.9	1228.7	1203.3	1174.1	1135.1	1113.6	1115.6	1111.7
40°	7346.8	6328.8	3315.5	1295.0	1176.0	1148.7	1103.9	1059.0	1045.4	1045.4	1041.5
42.5°	7500.9	6289.8	2863.1	1211.1	1125.3	1094.1	1037.6	996.6	988.8	986.9	990.8
45°	7855.9	6385.3	2457.4	1156.5	1082.4	1035.6	979.1	942.0	934.2	934.2	932.3
47.5°	8548.2	6695.4	2166.8	1121.4	1051.2	990.8	932.3	895.2	881.5	877.6	877.6
50°	9624.8	7368.3	1950.3	1090.2	1012.2	949.8	889.3	846.4	825.0	823.0	821.1
52.5°	11120.7	8417.6	1866.5	1066.8	969.3	906.9	840.6	799.6	772.3	766.5	762.6
55°	12870.1	9882.2	1981.5	1049.3	924.4	858.1	789.9	747.0	721.6	709.9	708.0
57.5°	14896.5	11641.4	2418.4	1025.9	883.5	805.5	739.2	696.3	669.0	655.3	651.4
60°	16716.2	13449.4	3181.0	1012.2	848.4	748.9	680.7	641.7	616.3	602.6	600.7
62.5°	18715.2	15173.5	4091.8	1049.3	832.8	694.3	626.1	590.9	569.5	555.8	555.8
65°	20850.8	16899.5	4694.4	1174.1	856.2	651.4	567.5	538.3	518.8	509.0	507.1
67.5°	22290.2	17496.3	3867.5	1302.8	914.7	604.6	511.0	487.6	475.9	466.1	466.1
69°	22134.1	16741.5	2853.3	1336.0	932.3	581.2	479.8	462.2	446.6	442.7	438.8
70°	21640.7	15881.4	2391.1	1314.5	918.6	559.7	460.3	438.8	425.2	421.3	419.3
72.5°	19275.0	13773.1	1780.6	1142.9	782.1	485.6	407.6	388.1	376.4	370.6	370.6
75°	16014.0	11257.2	1390.6	908.8	612.4	409.6	349.1	333.5	323.8	319.9	317.9
77.5°	8975.4	6285.9	998.6	711.9	464.2	331.6	292.5	278.9	269.1	265.2	265.2
80°	2500.3	1796.2	587.0	470.0	316.0	251.6	232.1	222.3	208.7	198.9	204.8
82.5°	942.0	778.2	335.5	282.8	200.9	167.7	161.9	154.1	148.2	134.6	134.6
85°	458.3	378.4	214.5	150.2	111.2	87.8	83.9	80.0	76.1	66.3	68.3
87.5°	158.0	167.7	93.6	54.6	33.2	21.5	17.6	9.8	9.8	9.8	9.8
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)