

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: P192818

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 36778.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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: 25 FT

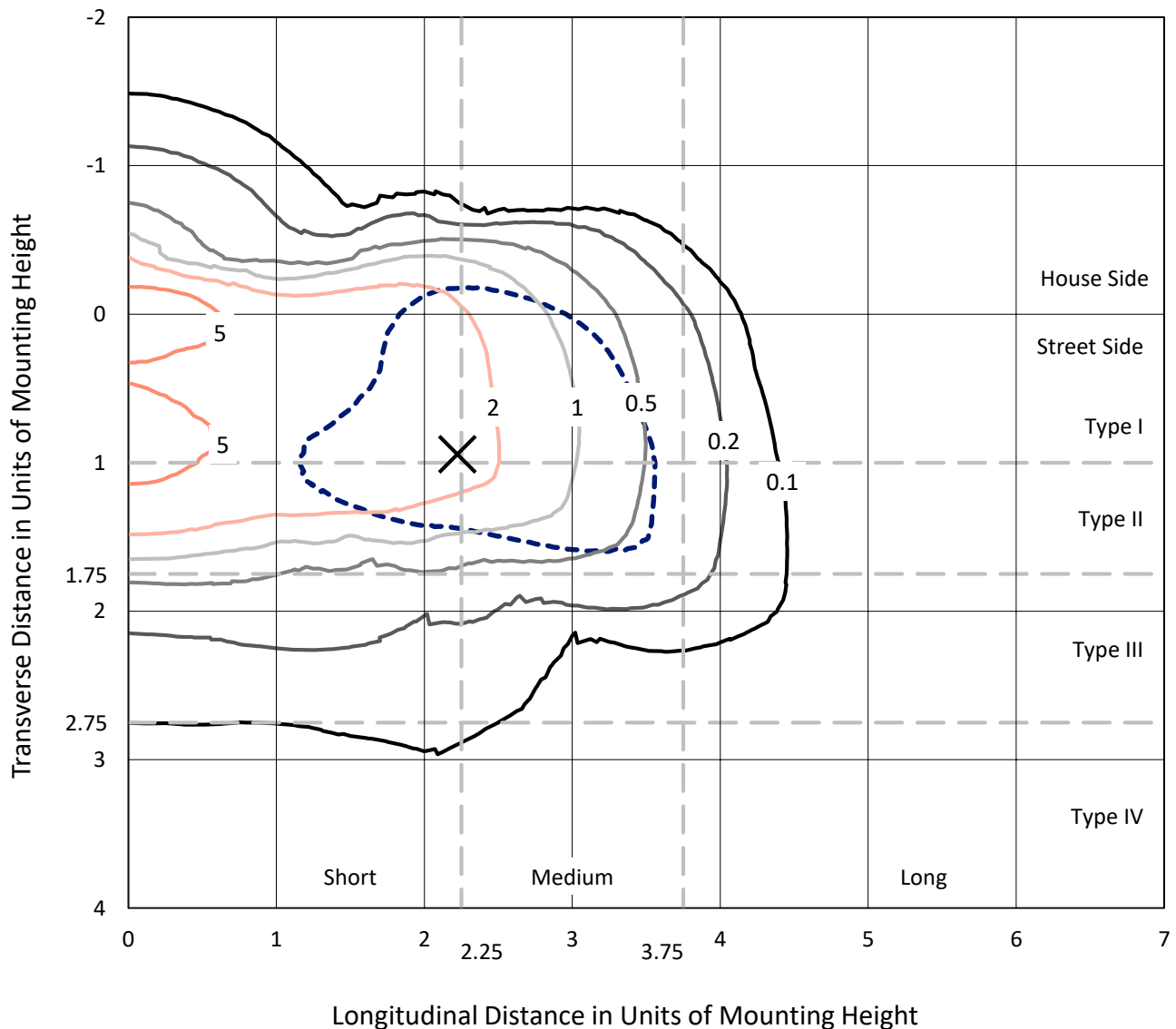


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

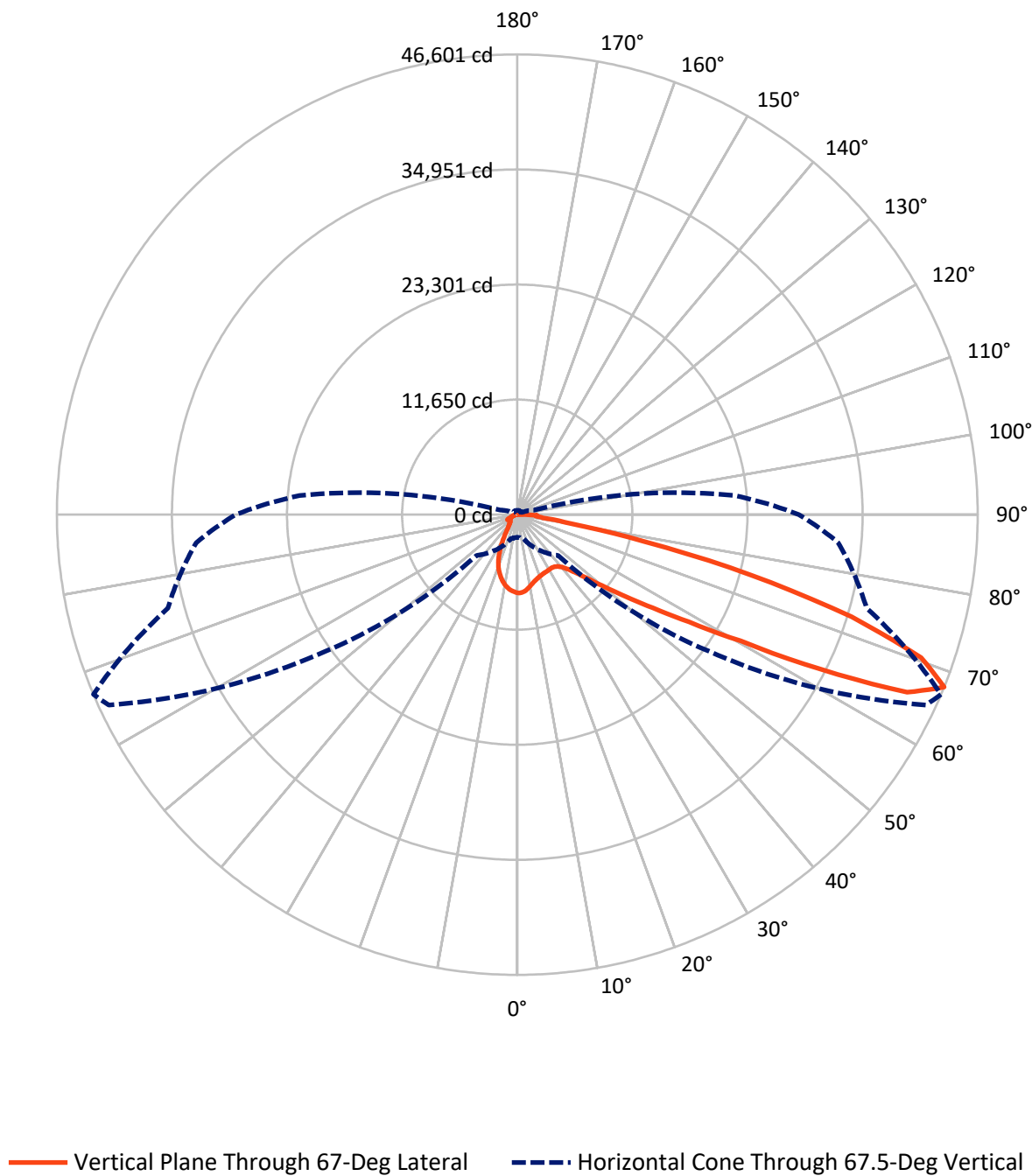


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6093.9	0.0	6093.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	30685.0	0.0	30685.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	36778.9	0.0	36778.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.8	1.8
10°-20°	1566.0	4.3
20°-30°	2122.8	5.8
30°-40°	3017.8	8.2
40°-50°	5048.8	13.7
50°-60°	7987.2	21.7
60°-70°	10175.0	27.7
70°-80°	5329.6	14.5
80°-90°	854.8	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°	36778.9	100.0
0°-180°	36778.9	100.0

Coefficient of Utilization



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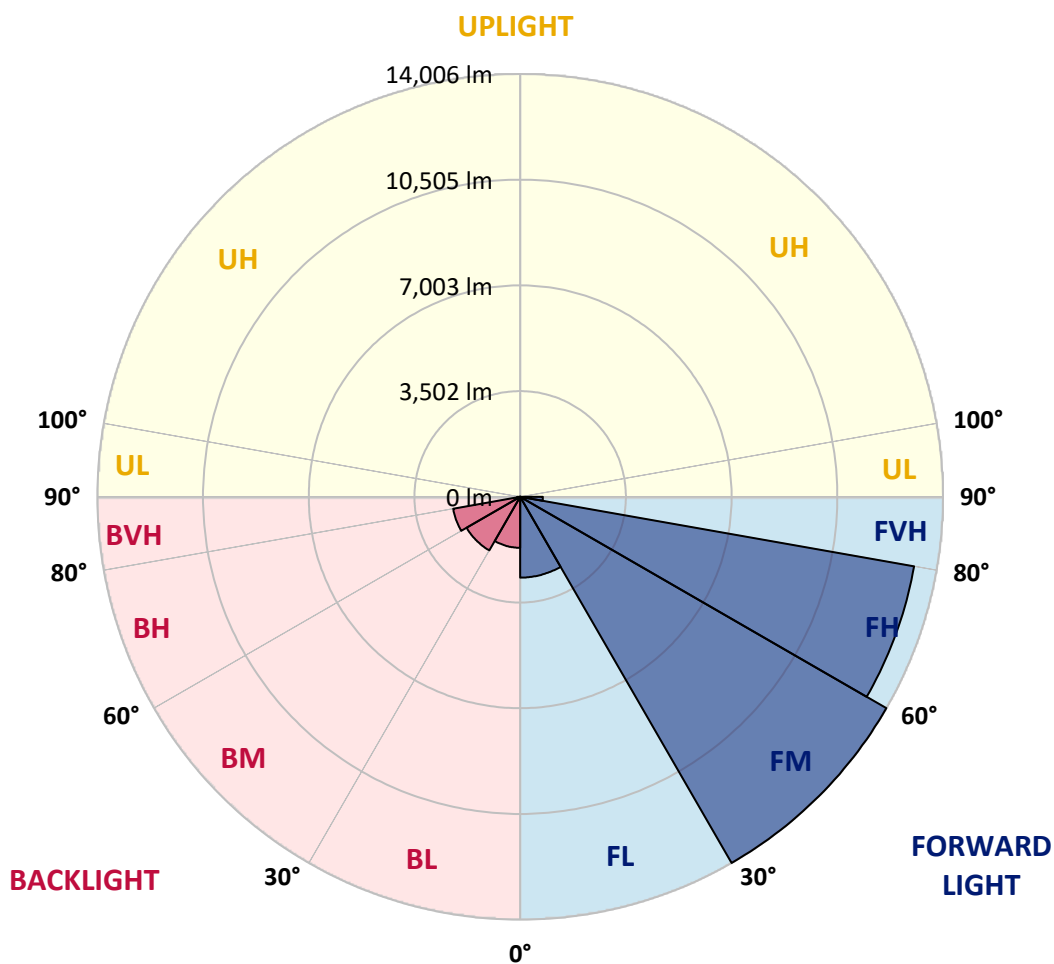
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2676.6	7.3			
FM	(30°-60°)	14006.2	38.1			
FH	(60°-80°)	13250.7	36.0			G5
FVH	(80°-90°)	751.6	2.0			G5
BL	(0°-30°)	1689.0	4.6	B3/2500		
BM	(30°-60°)	2047.7	5.6	B2/2500		
BH	(60°-80°)	2253.9	6.1	B3/2500		G3/2500
BVH	(80°-90°)	103.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1
2.5°	7606.6	7619.3	7659.3	7684.6	7798.9	7847.9	7882.3	7916.8	7922.3	7938.6	7922.3
5°	6808.6	6835.8	6910.2	6993.5	7214.9	7388.9	7572.2	7762.7	7797.1	7920.4	7954.8
7.5°	6190.2	6182.9	6244.6	6344.3	6571.1	6812.2	7133.3	7512.3	7586.8	7864.2	7998.5
10°	5738.6	5733.1	5798.4	5901.7	6117.7	6346.1	6708.8	7227.6	7332.8	7775.3	8040.2
12.5°	5404.8	5406.5	5471.9	5586.2	5805.6	6036.0	6404.1	6951.9	7086.1	7671.9	8083.6
15°	5183.6	5198.0	5250.7	5372.2	5586.2	5816.5	6177.4	6745.1	6895.7	7590.4	8132.6
17.5°	5109.2	5132.8	5150.9	5239.7	5423.0	5653.3	6007.0	6592.8	6752.4	7534.1	8176.2
20°	5178.2	5205.3	5170.8	5201.8	5317.7	5520.9	5872.8	6473.1	6636.3	7470.6	8181.6
22.5°	5473.8	5499.1	5397.5	5308.7	5301.5	5424.7	5762.2	6378.8	6547.5	7423.5	8183.4
25°	5994.3	6010.6	5840.1	5633.3	5432.1	5390.3	5684.1	6313.4	6493.1	7381.8	8149.0
27.5°	6632.7	6645.3	6449.5	6144.8	5740.4	5471.9	5656.9	6275.5	6462.2	7345.5	8090.8
30°	7409.0	7468.9	7205.8	6821.3	6231.8	5713.1	5711.3	6255.4	6427.7	7283.8	7976.7
32.5°	8203.3	8228.8	8047.4	7657.4	6893.8	6137.5	5863.7	6270.0	6418.7	7209.5	7831.6
35°	9008.7	9041.3	8923.4	8609.6	7798.9	6759.7	6161.1	6355.2	6474.9	7184.1	7730.0
37.5°	10051.6	10095.0	9931.7	9569.0	8899.8	7603.1	6656.3	6569.2	6647.3	7256.6	7699.2
40°	11700.1	11680.3	11203.2	10662.7	10104.1	8682.2	7363.6	6932.0	6977.3	7490.6	7793.5
42.5°	13619.0	13570.1	12748.5	11899.7	11428.1	9988.1	8299.5	7561.3	7552.2	7951.3	8125.4
45°	15149.8	15109.9	14369.9	13323.4	12946.1	11475.3	9509.2	8498.9	8431.9	8682.2	8738.3
47.5°	15978.6	15980.5	15554.2	14700.0	14690.9	13365.1	11063.6	9855.6	9739.6	9857.5	9797.6
50°	15688.4	15726.6	15681.2	15409.2	16283.4	15842.6	13093.1	11747.3	11513.3	11629.4	11399.1
52.5°	14284.7	14333.6	14602.1	15019.3	16952.6	18837.1	16074.8	14097.8	13825.7	13784.0	13528.4
55°	11796.2	11856.2	12403.8	13537.4	16395.8	20848.5	20779.5	17094.0	16660.6	16267.1	16158.3
57.5°	8130.8	8230.5	9112.0	10795.2	14594.9	21456.0	26382.1	21365.3	20483.9	19109.1	19134.5
60°	4583.2	4699.2	5738.6	7267.5	10960.2	20795.9	30644.2	27834.8	25973.9	22437.3	22625.9
62.5°	2914.6	3039.7	3828.7	5049.3	6576.5	17241.0	32390.8	36828.9	34465.8	26539.8	26724.9
65°	2359.7	2414.1	2785.8	4167.9	4775.5	10387.1	31065.0	44237.9	43356.4	31746.9	30883.7
67.5°	2303.4	2321.5	2513.8	3498.6	4579.6	5838.3	24778.7	45623.5	46601.2	36609.5	32615.7
70°	2276.2	2339.7	2833.0	3339.0	4385.5	4924.2	14890.4	41825.6	43369.2	37880.8	30310.4
72.5°	1104.5	1100.9	1425.7	3019.8	4940.4	5107.4	7650.3	33841.8	35390.7	32818.9	24907.5
75°	890.6	814.3	778.0	1106.4	4750.0	5274.3	4875.2	23286.1	24406.9	22003.7	15311.3
77.5°	845.2	754.6	691.1	692.8	2007.7	5593.4	4129.8	12888.1	13214.6	9939.1	4195.1
80°	700.2	616.7	571.3	643.9	972.2	5326.8	4465.3	5832.8	5352.2	2441.3	1396.6
82.5°	486.1	442.5	429.8	540.5	778.0	3796.1	5192.6	3134.1	2628.0	1222.4	861.5
85°	310.2	264.9	293.8	393.6	605.8	1752.1	5348.6	2443.0	1942.5	776.3	486.1
87.5°	143.2	116.1	145.1	217.7	395.4	603.9	5089.2	2744.1	2000.5	409.9	306.5
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°	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1
2.5°	7936.7	7902.2	7875.1	7824.3	7768.2	7713.7	7664.6	7603.1	7584.9	7568.6	7593.9
5°	7962.2	7927.7	7827.9	7671.9	7499.7	7338.2	7176.8	7038.9	6953.7	6906.6	6933.8
7.5°	8000.2	7951.3	7744.6	7457.9	7147.7	6864.9	6572.8	6338.9	6166.6	6084.9	6108.5
10°	8034.7	7940.4	7603.1	7173.2	6719.8	6299.1	5838.3	5457.4	5174.5	5025.7	5062.0
12.5°	8049.2	7898.7	7405.4	6817.7	6195.5	5578.9	4900.6	4331.1	3924.8	3776.1	3745.3
15°	8063.7	7851.5	7187.7	6413.2	5562.6	4690.2	3739.8	3057.8	2720.5	2646.2	2629.9
17.5°	8067.3	7769.9	6941.0	5974.3	4820.8	3632.9	2557.3	2123.9	2125.6	2245.4	2259.9
20°	8029.3	7648.3	6641.8	5428.4	3932.1	2512.0	1755.7	1681.3	1955.2	2254.4	2290.7
22.5°	7942.2	7487.0	6302.6	4791.8	2914.6	1654.0	1358.4	1440.0	1793.7	2160.2	2201.8
25°	7831.6	7291.1	5901.7	4053.6	1929.7	1182.5	1139.0	1238.8	1478.2	1723.0	1746.6
27.5°	7681.0	7058.9	5451.9	3208.4	1253.3	973.9	1003.0	1070.0	1168.0	1276.8	1287.7
30°	7487.0	6781.4	4971.3	2339.7	946.7	876.0	917.8	954.1	995.7	1057.4	1062.9
32.5°	7263.9	6514.8	4478.0	1616.1	839.7	825.2	857.9	876.0	908.7	946.7	950.3
35°	7077.0	6260.9	3966.5	1142.7	794.5	787.1	808.9	816.1	847.0	888.8	892.3
37.5°	6970.0	6054.2	3438.7	921.4	763.6	752.7	765.4	765.4	808.9	870.6	879.6
40°	6977.3	5939.9	2911.0	832.4	738.1	723.7	725.5	725.5	781.7	848.8	854.3
42.5°	7174.9	5968.9	2443.0	798.0	718.3	701.9	692.8	698.2	745.4	789.0	792.5
45°	7639.3	6173.8	2004.2	776.3	698.2	692.8	672.9	671.1	689.2	709.2	709.2
47.5°	8401.1	6578.3	1706.7	761.7	682.0	680.1	656.5	632.9	631.2	638.4	638.4
50°	9639.8	7274.7	1507.2	745.4	671.1	656.5	629.4	593.1	580.3	585.8	585.8
52.5°	11497.1	8517.1	1431.0	723.7	647.5	623.9	593.1	556.7	546.0	547.7	547.7
55°	13932.8	10425.1	1420.2	698.2	622.1	584.0	558.7	531.4	518.8	522.4	522.4
57.5°	16909.1	13064.0	1614.2	658.4	587.6	544.1	529.6	511.5	502.4	507.8	506.0
60°	20527.4	16517.4	2394.1	616.7	553.2	507.8	507.8	493.3	486.1	491.5	489.7
62.5°	24695.4	20483.9	3366.2	585.8	516.9	478.8	486.1	478.8	471.6	475.2	473.4
65°	28391.6	23068.5	3152.2	562.2	480.6	451.6	464.4	460.6	455.3	458.9	457.0
67.5°	28498.6	22110.8	1770.2	536.9	446.3	424.4	442.5	440.8	437.1	440.8	438.9
70°	25433.5	18670.2	997.5	489.7	409.9	391.8	417.2	415.3	411.7	419.0	417.2
72.5°	20376.9	13548.3	729.1	431.7	373.6	357.3	386.3	384.5	384.5	395.4	389.9
75°	11725.6	6971.9	582.3	370.0	335.5	322.9	348.2	350.0	353.7	368.2	357.3
77.5°	3342.7	2172.8	475.2	313.8	288.3	283.0	308.3	311.9	313.8	330.1	315.5
80°	1242.4	1001.2	391.8	263.0	235.8	237.6	261.1	266.6	268.4	284.7	266.6
82.5°	792.5	660.2	317.4	203.1	184.9	183.2	212.2	219.5	219.5	221.2	210.5
85°	462.5	395.4	239.4	147.0	130.6	125.1	157.8	170.5	165.1	161.3	154.2
87.5°	310.2	272.0	147.0	81.6	70.7	67.0	92.6	101.6	97.9	92.6	87.1
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)