

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: P528410

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17247 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

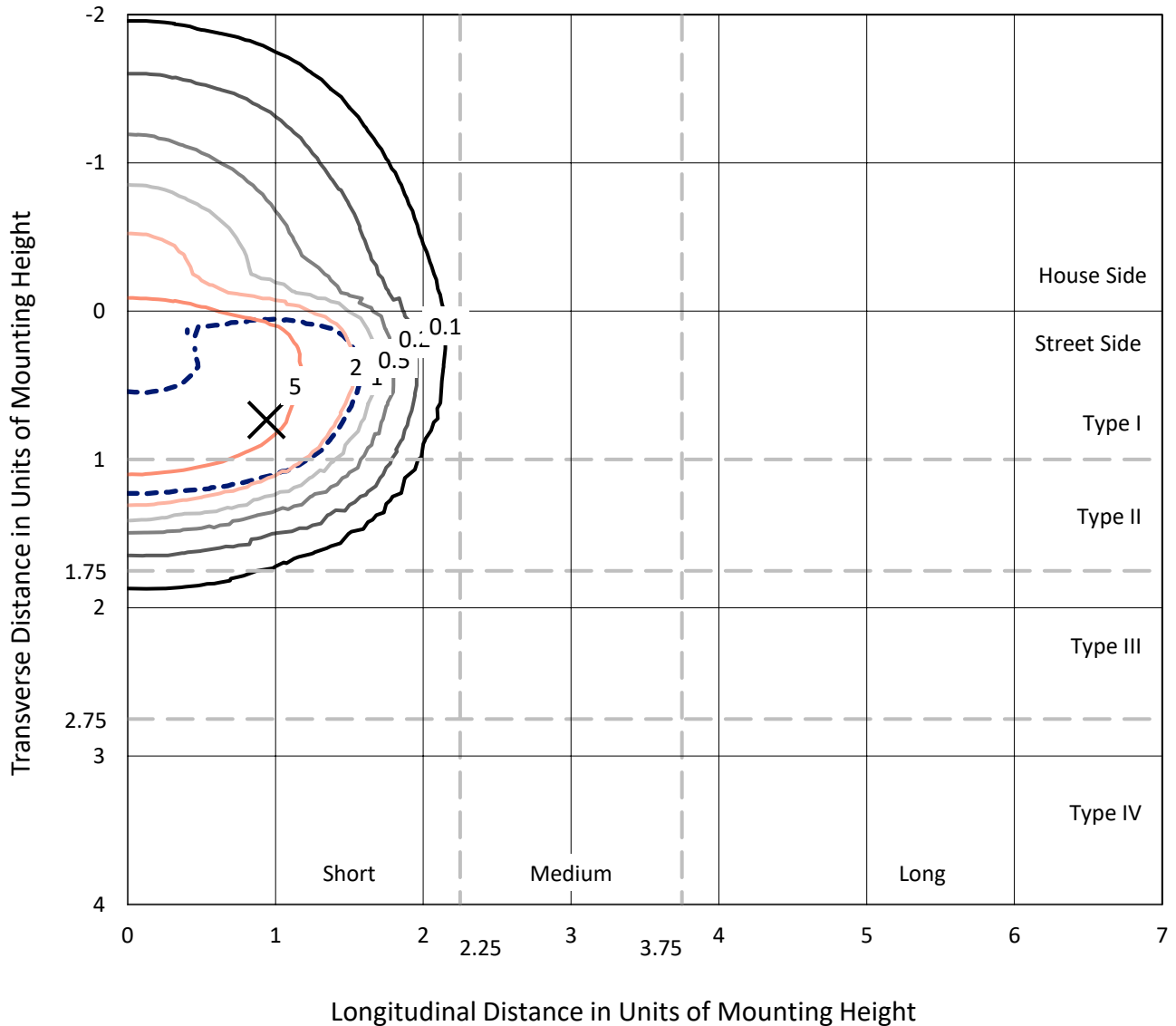
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

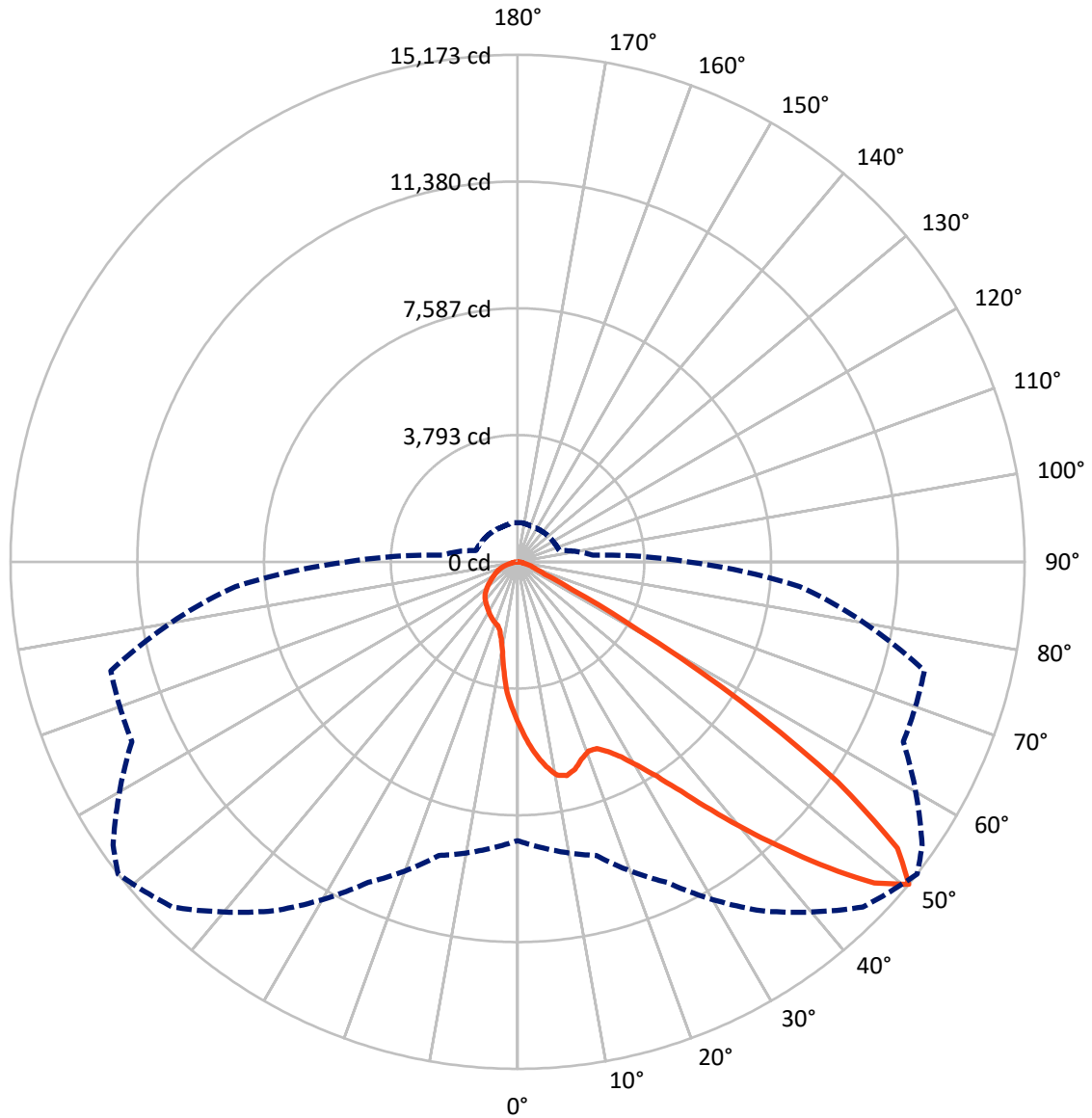
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3242.0	0.0	3242.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14005.0	0.0	14005.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	17247.0	0.0	17247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	2.6
10°-20°	1201.0	7.0
20°-30°	2023.1	11.7
30°-40°	3394.9	19.7
40°-50°	5193.3	30.1
50°-60°	3786.3	22.0
60°-70°	842.6	4.9
70°-80°	303.9	1.8
80°-90°	53.8	0.3
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°	17247.0	100.0
0°-180°	17247.0	100.0

Coefficient of Utilization



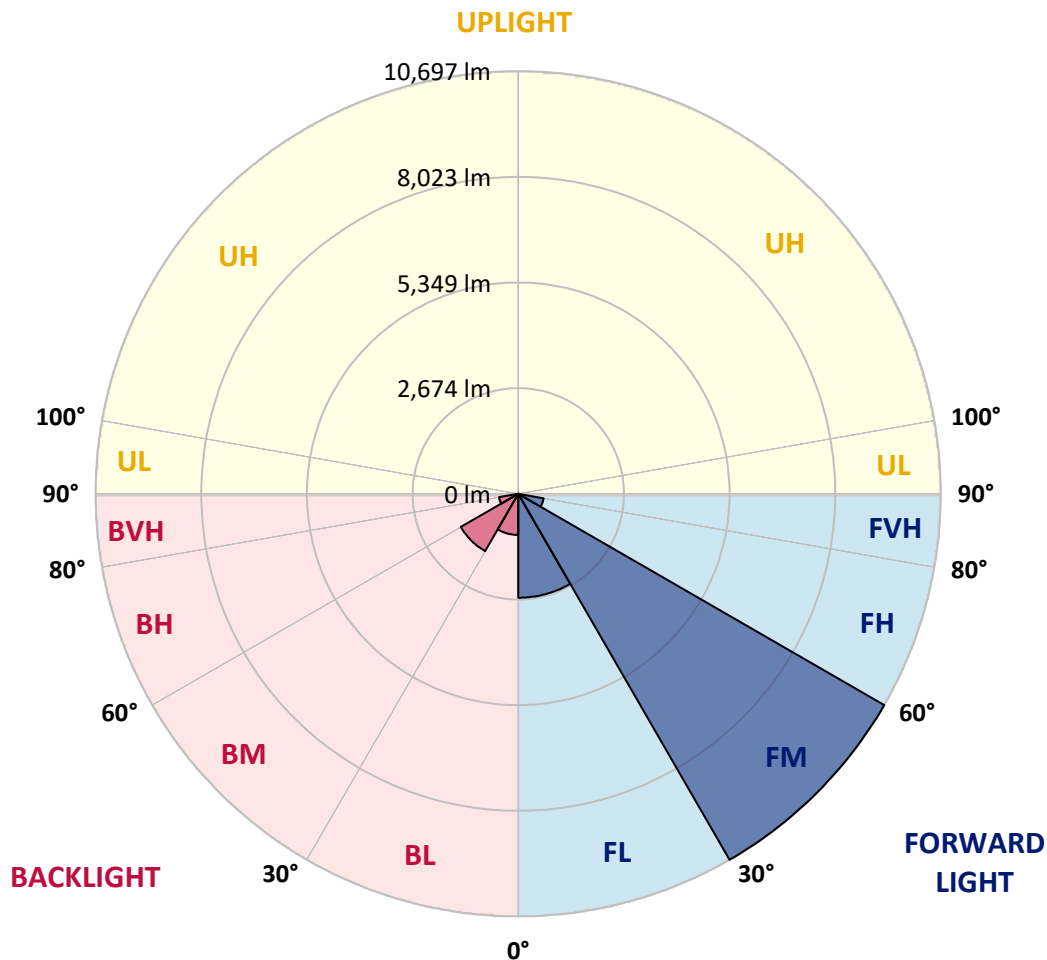
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.8	15.3			
FM (30°-60°)	10697.5	62.0			
FH (60°-80°)	652.6	3.8			G0/660
FVH (80°-90°)	24.1	0.1			G1/100
BL (0°-30°)	1041.4	6.0	B3/2500		
BM (30°-60°)	1677.0	9.7	B2/2500		
BH (60°-80°)	493.9	2.9	B1/500		G1/500
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6
2.5°	5724.2	5614.1	5626.5	5547.6	5462.3	5437.4	5350.1	5267.0	5204.6	5071.6	4948.9
5°	6256.3	6223.1	6173.2	6110.8	6046.4	5888.4	5799.1	5695.1	5466.5	5260.7	5057.0
7.5°	6333.2	6327.0	6354.0	6354.0	6376.9	6316.6	6189.8	6117.1	5873.9	5539.2	5160.9
10°	5792.8	5811.5	5942.5	6112.9	6349.9	6514.1	6493.3	6474.6	6208.5	5751.2	5283.6
12.5°	5362.6	5321.0	5397.9	5543.4	5898.8	6295.8	6563.9	6566.0	6497.4	6090.0	5373.0
15°	5119.4	5148.5	5169.3	5237.9	5506.0	5965.3	6437.2	6576.4	6877.8	6329.1	5514.3
17.5°	5275.3	5177.6	5173.4	5190.0	5327.2	5672.3	6202.3	6441.3	7085.7	6636.7	5688.9
20°	5479.0	5476.9	5418.7	5397.9	5395.8	5703.4	6048.5	6372.7	7195.8	7035.8	5865.6
22.5°	5836.5	5836.5	5740.9	5695.1	5597.4	5848.9	6069.3	6289.6	7378.7	7310.1	5950.8
25°	6435.1	6337.4	6173.2	6060.9	6004.8	6094.2	6289.6	6487.0	7538.8	7601.1	6127.5
27.5°	6988.0	6834.2	6753.1	6559.8	6485.0	6433.0	6611.8	6811.3	7725.8	8054.2	6223.1
30°	7615.7	7588.7	7443.2	7193.7	7008.7	6913.1	7077.3	7274.8	8068.8	8517.7	6443.4
32.5°	8738.1	8492.8	8295.3	7989.8	7688.4	7484.7	7646.9	7777.8	8638.3	9002.0	6684.5
35°	9949.8	9870.9	9530.0	8979.2	8517.7	8334.8	8430.5	8528.1	9301.3	9742.0	7089.8
37.5°	11140.8	11032.8	10752.2	10288.6	9727.4	9355.4	9424.0	9538.3	10045.5	10739.7	7584.5
40°	11997.2	11864.2	11722.8	11654.2	11097.2	10587.9	10548.5	10577.6	11051.5	11675.0	8133.2
42.5°	12059.5	12223.7	12267.4	12543.8	12412.9	11995.1	11751.9	11758.2	12011.7	12599.9	8688.2
45°	11928.6	11776.9	12099.0	12853.5	13285.9	13481.2	13071.8	13019.8	12606.2	13136.2	8964.6
47.5°	10554.7	10596.3	11140.8	12333.9	13583.1	14456.1	14360.5	14187.9	12924.2	13117.5	8921.0
50°	8343.2	8594.7	9099.7	10585.9	12751.7	14609.9	15173.1	14774.1	12735.1	12602.0	8476.2
52.5°	5555.9	5659.8	5992.4	7910.8	10253.3	13059.3	14237.8	14329.3	12560.5	11926.5	7912.9
55°	2473.4	2465.1	2932.8	4132.1	6433.0	9937.4	11633.4	12190.5	11889.1	11238.5	7364.2
57.5°	1047.6	1082.9	1274.1	1785.4	3163.5	5996.5	7881.7	8370.2	9143.4	9228.6	5649.4
60°	708.8	712.9	764.9	893.8	1324.0	2816.4	4134.2	4720.3	5273.2	5235.8	2997.2
62.5°	557.0	571.6	611.1	663.0	785.7	1278.3	1849.9	2176.2	2211.5	1860.3	1136.9
65°	476.0	478.1	517.5	561.2	615.2	744.1	891.7	908.3	918.7	885.4	835.6
67.5°	392.8	397.0	428.2	478.1	527.9	569.5	611.1	631.9	679.7	773.2	760.7
70°	311.8	318.0	345.0	386.6	432.3	457.3	509.2	527.9	571.6	644.3	673.4
72.5°	237.0	239.0	261.9	291.0	332.6	357.5	401.2	421.9	451.0	513.4	540.4
75°	170.4	176.7	193.3	207.9	214.1	230.7	272.3	295.1	336.7	363.7	365.8
77.5°	89.4	93.5	97.7	97.7	118.5	149.7	176.7	189.1	218.2	239.0	228.6
80°	35.3	37.4	47.8	64.4	83.1	108.1	126.8	133.0	158.0	170.4	176.7
82.5°	20.8	22.9	31.2	45.7	60.3	76.9	91.5	97.7	114.3	128.9	133.0
85°	10.4	12.5	18.7	29.1	39.5	47.8	45.7	43.6	43.6	41.6	43.6
87.5°	4.2	4.2	6.2	6.2	6.2	8.3	10.4	10.4	10.4	12.5	12.5
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°	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6	4861.6
2.5°	4867.9	4784.7	4707.8	4566.5	4412.7	4369.0	4190.3	4125.8	4080.1	4026.1	4009.5
5°	4892.8	4782.7	4535.3	4250.6	4024.0	3733.0	3541.8	3336.0	3186.4	3148.9	3138.6
7.5°	4944.8	4755.6	4329.5	3899.3	3435.8	3040.9	2739.5	2577.4	2433.9	2425.6	2411.1
10°	5003.0	4674.6	4105.1	3429.5	2837.2	2471.4	2290.5	2219.9	2184.5	2176.2	2172.0
12.5°	5050.8	4657.9	3853.6	2972.3	2413.2	2192.8	2138.8	2132.6	2147.1	2151.3	2159.6
15°	5071.6	4591.4	3550.1	2562.8	2149.2	2068.1	2091.0	2115.9	2126.3	2153.3	2132.6
17.5°	5111.1	4506.2	3176.0	2238.6	2001.6	2016.2	2055.6	2084.7	2101.4	2120.1	2093.1
20°	5131.9	4429.3	2824.7	2045.3	1949.6	1976.7	2030.7	2053.6	2074.4	2082.7	2051.5
22.5°	5113.1	4271.3	2515.0	1889.4	1899.8	1935.1	1982.9	2007.8	1995.4	1962.1	1943.4
25°	5063.3	4048.9	2192.8	1789.6	1829.1	1891.4	1928.9	1910.2	1887.3	1868.6	1862.3
27.5°	5061.2	3776.7	1960.0	1698.1	1768.8	1854.0	1841.6	1824.9	1835.3	1820.8	1804.1
30°	5071.6	3512.7	1768.8	1646.2	1725.2	1766.7	1781.3	1764.7	1777.1	1750.1	1758.4
32.5°	5017.5	3255.0	1644.1	1585.9	1673.2	1671.1	1718.9	1731.4	1702.3	1646.2	1654.5
35°	5040.4	3047.1	1538.1	1558.9	1615.0	1615.0	1652.4	1637.9	1561.0	1527.7	1536.0
37.5°	5198.4	2843.4	1486.1	1521.5	1558.9	1575.5	1563.0	1500.7	1482.0	1482.0	1486.1
40°	5348.0	2668.8	1455.0	1513.2	1506.9	1517.3	1425.9	1432.1	1432.1	1434.2	1423.8
42.5°	5481.0	2550.3	1430.0	1463.3	1473.7	1419.6	1363.5	1357.3	1371.8	1369.7	1361.4
45°	5528.8	2452.6	1394.7	1407.2	1415.5	1326.1	1299.1	1286.6	1303.2	1309.5	1317.8
47.5°	5345.9	2371.6	1355.2	1330.2	1313.6	1255.4	1220.1	1197.2	1218.0	1253.3	1261.7
50°	5111.1	2265.6	1292.8	1245.0	1209.7	1184.8	1159.8	1136.9	1151.5	1176.4	1170.2
52.5°	4764.0	2099.3	1213.9	1164.0	1103.7	1109.9	1087.1	1074.6	1082.9	1082.9	1076.7
55°	4269.3	1725.2	1080.8	1045.5	995.6	1012.2	1016.4	999.8	983.1	997.7	985.2
57.5°	2914.1	1218.0	964.4	964.4	914.5	937.4	935.3	895.8	856.3	860.5	852.2
60°	1685.7	970.7	889.6	881.3	829.3	848.0	852.2	825.2	764.9	769.1	760.7
62.5°	958.2	829.3	777.4	764.9	754.5	771.1	771.1	735.8	683.8	688.0	679.7
65°	814.8	769.1	694.2	692.1	688.0	692.1	675.5	638.1	592.4	573.7	575.7
67.5°	740.0	710.9	638.1	619.4	606.9	604.8	573.7	538.3	517.5	500.9	498.8
70°	648.5	625.6	571.6	546.6	534.2	505.1	473.9	451.0	421.9	413.6	421.9
72.5°	513.4	511.3	490.5	463.5	436.5	413.6	386.6	355.4	328.4	322.2	307.6
75°	355.4	359.6	363.7	359.6	336.7	307.6	276.4	251.5	218.2	199.5	195.4
77.5°	232.8	239.0	245.3	237.0	222.4	195.4	174.6	143.4	118.5	103.9	101.8
80°	170.4	178.8	182.9	176.7	160.0	139.3	116.4	91.5	72.7	60.3	60.3
82.5°	130.9	139.3	143.4	133.0	116.4	99.8	83.1	64.4	49.9	39.5	37.4
85°	45.7	43.6	52.0	54.0	64.4	60.3	49.9	37.4	29.1	20.8	18.7
87.5°	12.5	12.5	14.5	14.5	12.5	10.4	10.4	10.4	8.3	6.2	6.2
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)