

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: P299877

Luminaire Tested: **GLNA-AF-01-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-5WQ-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4312.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
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

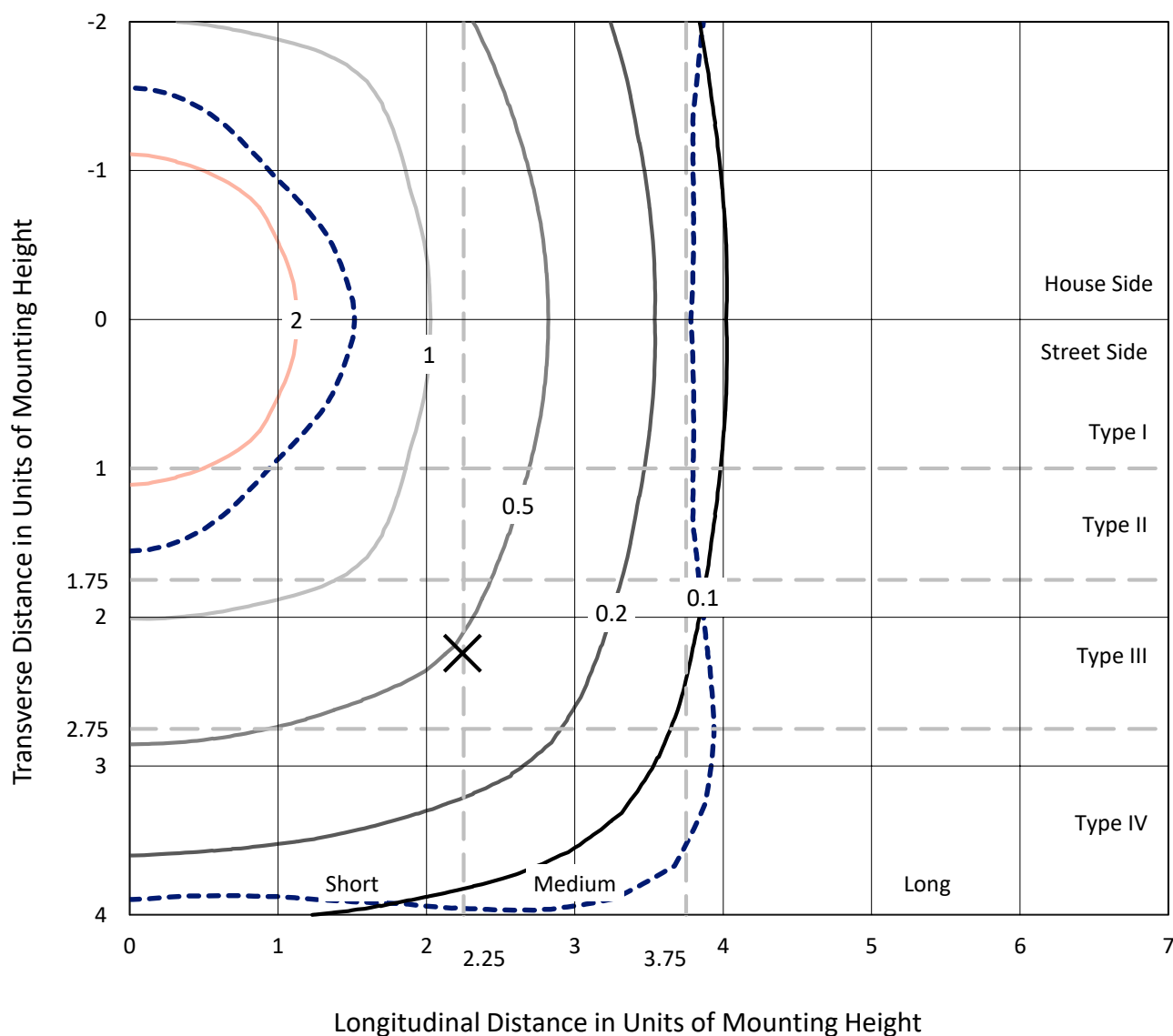


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

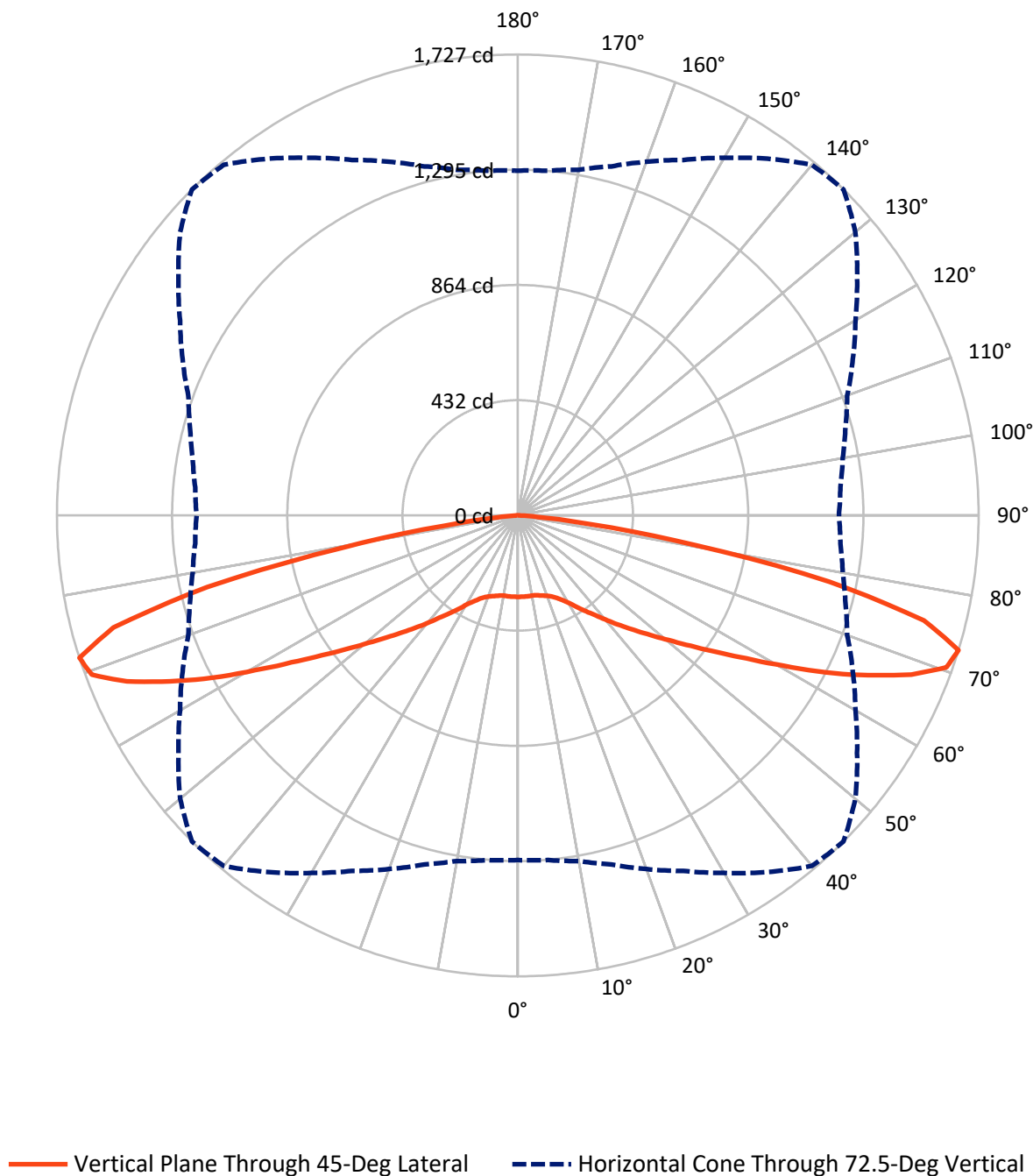


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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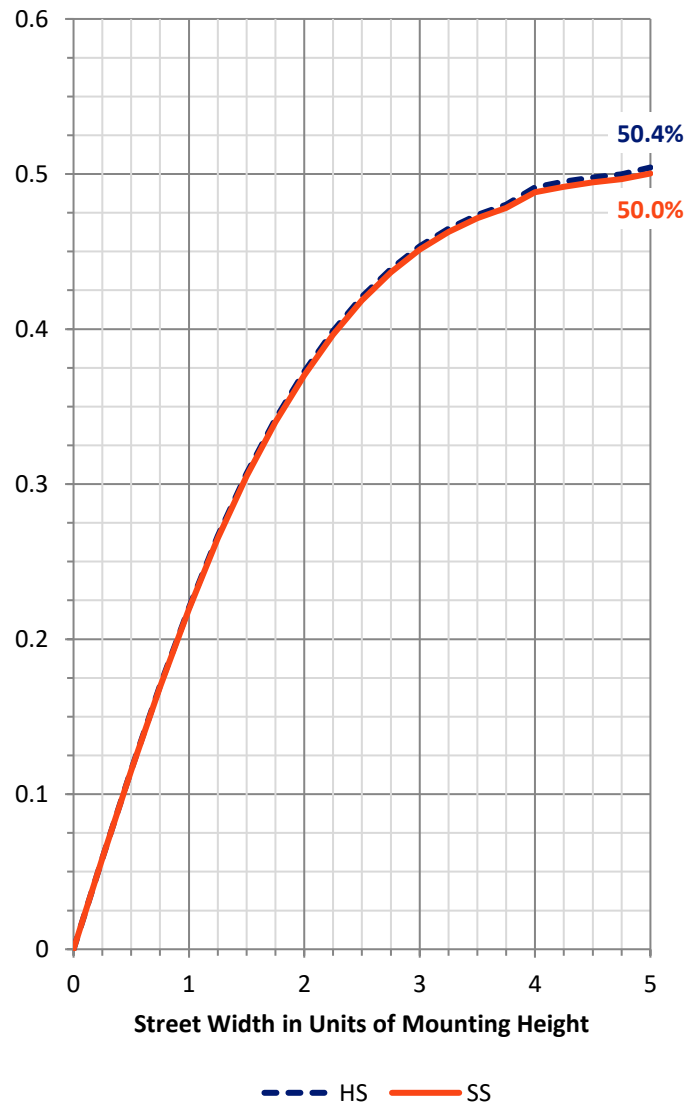
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2156.4	0.0	2156.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2156.4	0.0	2156.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4312.8	0.0	4312.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.7
10°-20°	88.6	2.1
20°-30°	161.9	3.8
30°-40°	279.1	6.5
40°-50°	477.1	11.1
50°-60°	773.3	17.9
60°-70°	1282.8	29.7
70°-80°	1129.9	26.2
80°-90°	91.1	2.1
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°	4312.8	100.0
0°-180°	4312.8	100.0

Coefficient of Utilization



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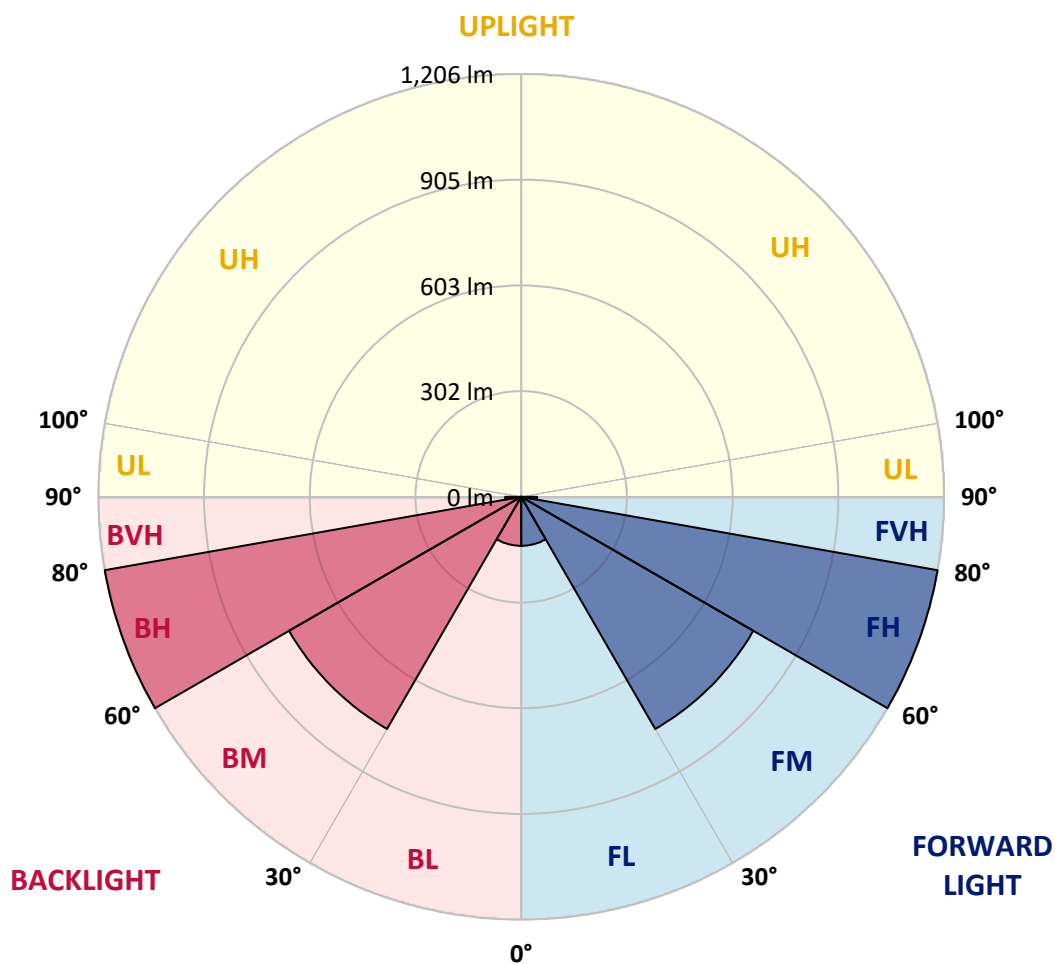
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.8	3.2			
FM	(30°-60°)	764.7	17.7			
FH	(60°-80°)	1206.4	28.0			G1/1800
FVH	(80°-90°)	45.5	1.1			G1/100
BL	(0°-30°)	139.8	3.2	B1/500		
BM	(30°-60°)	764.7	17.7	B1/1000		
BH	(60°-80°)	1206.4	28.0	B3/2500		G1/1800
BVH	(80°-90°)	45.5	1.1			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4
2.5°	305.4	305.6	305.8	305.6	305.6	305.4	305.2	305.4	305.2	304.8	305.0
5°	306.4	306.8	306.8	306.4	306.6	306.4	306.0	306.2	305.8	305.2	305.2
7.5°	307.6	307.8	307.8	307.4	307.6	307.2	306.8	306.6	306.2	305.4	304.8
10°	309.4	309.6	309.4	309.0	309.0	308.4	307.4	307.0	306.2	305.0	304.4
12.5°	311.4	311.5	311.4	311.0	310.8	309.8	309.0	308.4	307.8	306.8	305.8
15°	314.1	314.5	314.1	313.3	312.7	311.9	311.5	311.7	311.9	311.2	310.2
17.5°	319.3	319.5	318.9	317.1	316.3	315.5	315.5	315.9	316.5	316.1	315.1
20°	328.8	328.2	326.8	324.6	323.6	322.2	322.0	322.2	322.2	322.0	321.2
22.5°	340.6	340.2	338.4	335.7	334.3	333.5	332.3	331.3	331.1	330.5	329.7
25°	354.9	354.7	352.5	350.1	349.1	348.1	347.2	345.8	344.6	343.2	342.4
27.5°	373.1	372.3	369.1	367.9	366.5	365.9	364.6	363.0	362.0	360.2	359.2
30°	393.0	393.0	390.5	390.1	390.1	388.7	387.1	384.3	382.6	380.8	380.2
32.5°	413.0	413.2	410.6	411.4	412.0	413.0	413.4	412.4	411.2	411.0	409.9
35°	441.9	441.1	438.5	439.1	438.9	438.7	438.7	440.9	441.3	441.7	439.3
37.5°	477.7	477.7	475.1	475.1	473.9	472.8	471.2	472.6	474.7	475.3	473.8
40°	518.7	520.0	516.9	516.7	517.1	513.3	511.5	513.7	515.1	517.5	515.7
42.5°	566.9	565.9	562.8	562.4	560.2	559.0	557.4	559.2	561.4	563.0	563.6
45°	613.2	612.4	608.9	608.9	606.7	605.7	606.5	609.4	610.4	612.6	614.8
47.5°	658.9	657.9	655.5	656.5	656.7	658.5	661.1	663.8	666.6	669.6	670.6
50°	705.6	705.8	703.2	705.6	708.5	713.5	720.4	725.0	730.7	734.5	735.6
52.5°	748.1	748.9	751.7	757.2	763.1	772.8	784.7	795.8	805.3	811.6	811.2
55°	799.1	800.3	807.1	816.6	826.2	840.9	858.5	878.1	893.9	903.0	897.3
57.5°	864.4	867.0	874.5	887.4	901.8	920.8	944.9	974.4	998.9	1011.2	1001.9
60°	954.0	955.6	964.7	979.0	996.4	1019.9	1052.1	1091.7	1126.3	1142.5	1131.9
62.5°	1072.1	1075.1	1082.4	1096.8	1114.6	1141.4	1180.7	1230.2	1273.3	1295.8	1271.7
65°	1213.2	1222.7	1228.8	1243.4	1260.0	1288.3	1329.5	1382.5	1428.8	1443.6	1415.7
67.5°	1352.8	1361.1	1371.8	1388.6	1405.4	1437.3	1475.5	1526.9	1577.7	1591.2	1547.8
70°	1413.9	1418.7	1435.3	1458.2	1490.5	1528.1	1572.2	1629.9	1692.8	1703.9	1648.9
72.5°	1291.5	1296.2	1314.8	1353.8	1410.0	1469.7	1546.7	1631.5	1714.6	1727.1	1651.3
75°	976.8	969.1	996.6	1048.2	1123.9	1207.2	1314.8	1436.5	1556.6	1572.2	1481.8
77.5°	504.8	503.8	524.6	588.7	679.1	773.8	892.3	1029.8	1147.3	1194.8	1121.2
80°	142.2	143.8	153.7	185.5	238.4	306.8	399.4	528.1	624.3	673.3	632.2
82.5°	55.8	60.1	63.9	69.8	76.7	86.8	115.9	172.5	231.4	276.5	226.5
85°	20.0	21.4	30.3	35.8	36.4	38.4	43.7	51.0	61.5	73.4	60.3
87.5°	7.5	8.3	9.7	16.0	15.8	14.4	17.6	18.4	13.8	12.7	15.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4
2.5°	304.6	304.8	304.8	305.0	305.2	305.2	305.6	305.6
5°	304.8	304.8	304.4	304.6	304.4	304.4	304.6	304.6
7.5°	304.4	304.2	303.8	303.6	303.2	303.2	303.2	303.2
10°	303.8	303.6	303.2	303.0	302.8	302.8	302.8	302.8
12.5°	305.4	304.8	304.4	304.2	304.2	304.2	304.2	304.2
15°	309.6	308.2	307.2	307.2	307.4	307.8	307.8	308.2
17.5°	314.7	313.1	312.1	311.4	311.7	312.3	312.7	313.1
20°	320.8	320.1	318.7	317.9	317.9	318.7	319.1	319.3
22.5°	329.4	328.8	328.2	327.2	327.2	327.6	328.4	328.4
25°	342.0	341.6	341.2	340.4	340.2	340.2	340.6	341.0
27.5°	357.8	358.0	357.6	357.4	356.8	356.6	357.2	357.0
30°	379.0	380.0	381.0	380.2	379.2	378.6	378.0	377.2
32.5°	407.7	406.5	405.7	404.3	402.5	401.0	399.8	398.4
35°	434.8	432.8	432.0	433.2	433.0	432.0	430.6	429.4
37.5°	468.0	467.6	468.0	470.2	469.8	470.8	468.0	467.8
40°	509.9	510.3	513.1	515.7	517.1	518.5	516.9	515.3
42.5°	558.6	558.4	559.4	563.0	565.3	566.9	563.6	563.2
45°	610.0	608.7	609.4	612.4	614.8	616.6	612.8	612.8
47.5°	666.6	664.2	661.7	665.0	666.4	667.6	664.6	663.6
50°	729.7	724.8	719.2	720.6	720.6	720.2	716.5	716.3
52.5°	802.1	793.0	782.9	779.2	777.0	774.6	768.1	764.9
55°	885.4	871.7	855.9	846.2	841.1	834.6	823.7	820.7
57.5°	982.7	961.3	934.1	922.2	910.7	900.0	888.0	884.6
60°	1098.0	1066.6	1030.4	1008.4	996.0	985.7	973.2	972.6
62.5°	1226.6	1177.0	1136.0	1116.2	1107.1	1098.0	1086.2	1087.7
65°	1357.4	1305.5	1267.2	1251.1	1242.6	1235.1	1223.2	1225.0
67.5°	1486.3	1438.7	1396.5	1380.1	1370.6	1361.1	1350.4	1352.2
70°	1578.9	1519.8	1472.3	1435.9	1413.1	1387.4	1370.8	1366.7
72.5°	1552.4	1461.2	1385.8	1313.6	1271.3	1236.9	1213.6	1203.5
75°	1343.5	1218.9	1122.0	1033.4	983.5	943.0	913.5	895.1
77.5°	997.7	857.7	743.2	641.1	560.4	506.2	468.0	443.3
80°	546.1	415.4	303.6	213.4	156.9	130.4	115.1	107.8
82.5°	170.1	109.8	80.9	69.8	64.9	62.1	57.6	50.2
85°	54.2	47.5	44.1	42.1	40.2	35.0	24.1	22.0
87.5°	21.0	21.6	21.4	20.2	20.6	14.8	11.9	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)