

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: P192609

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192609
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: GLEON-AF-01-LED-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4182.4 lumens
Efficiency: N/A
Efficacy: 123.0 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): 34
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

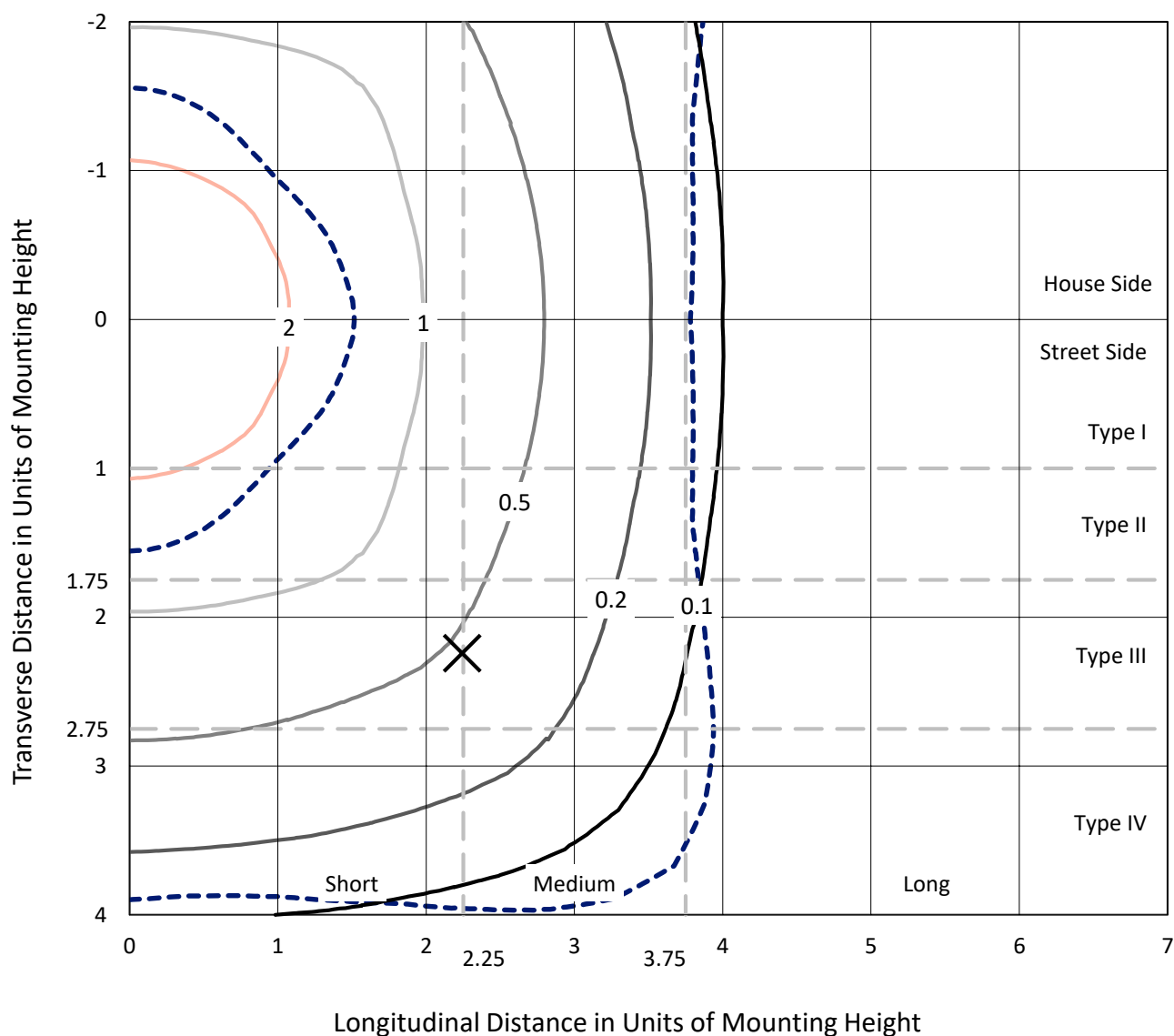


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

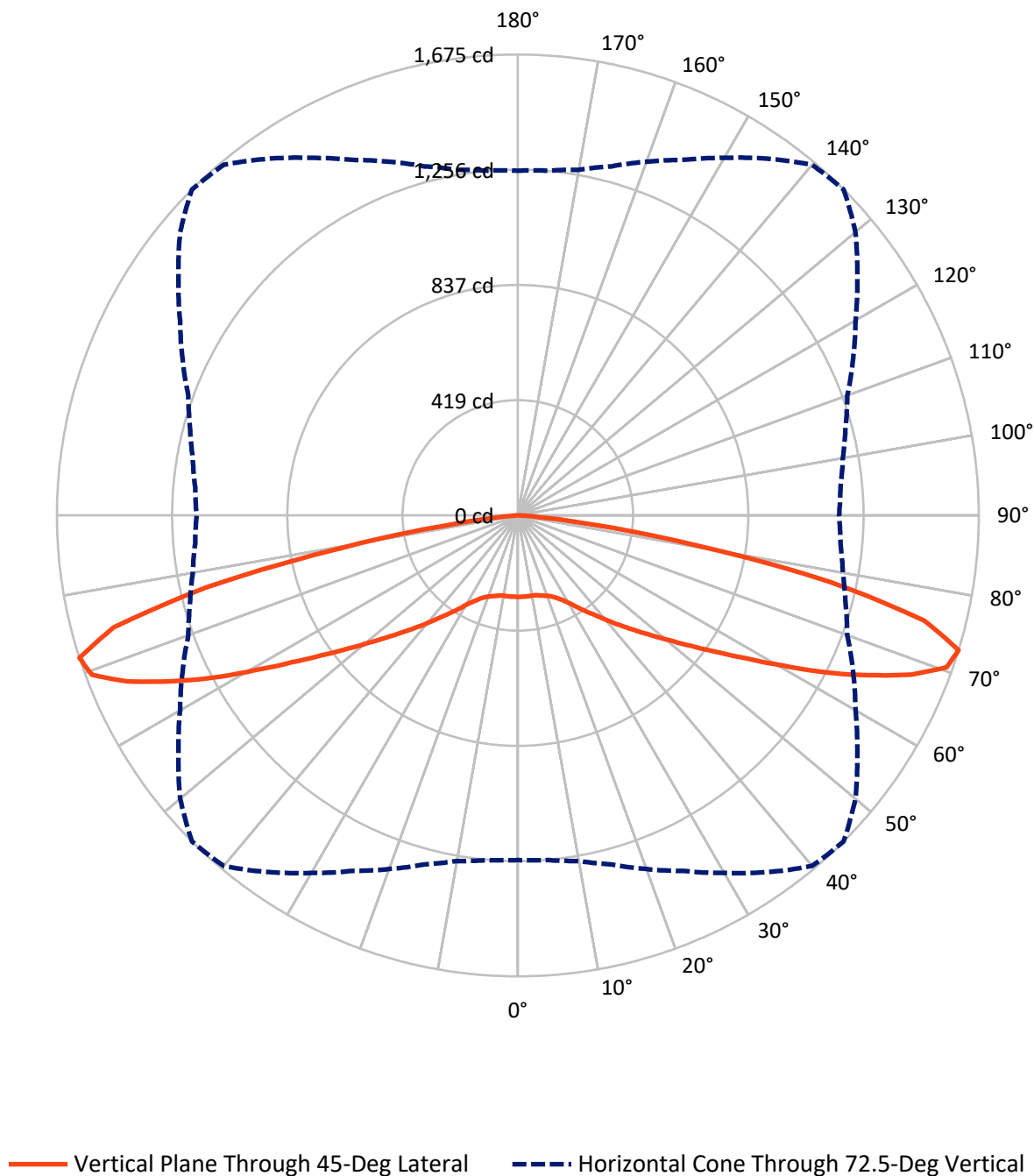


Based on 10 foot mounting height. Maximum calculated value = 3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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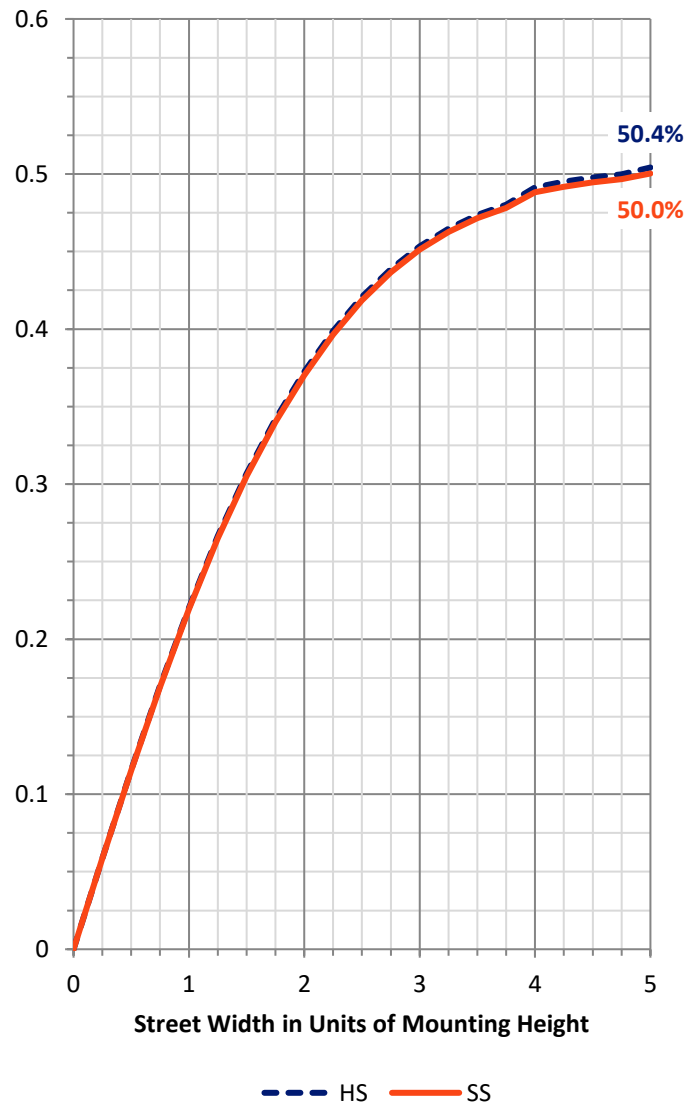
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.2	0.0	2091.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2091.2	0.0	2091.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4182.4	0.0	4182.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	0.7
10°-20°	85.9	2.1
20°-30°	157.0	3.8
30°-40°	270.6	6.5
40°-50°	462.7	11.1
50°-60°	749.9	17.9
60°-70°	1244.0	29.7
70°-80°	1095.7	26.2
80°-90°	88.3	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°	4182.4	100.0
0°-180°	4182.4	100.0

Coefficient of Utilization



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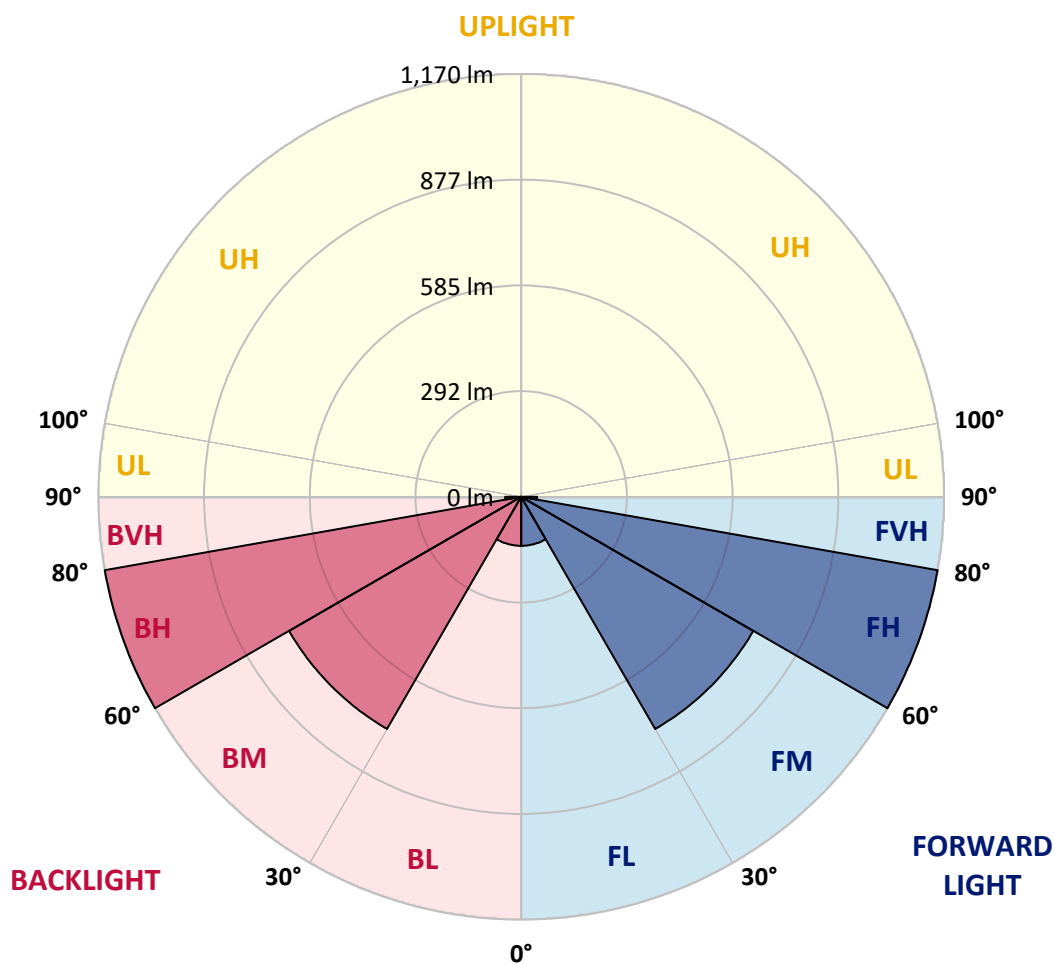
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.6	3.2			
FM	(30°-60°)	741.6	17.7			
FH	(60°-80°)	1169.9	28.0			G1/1800
FVH	(80°-90°)	44.2	1.1			G1/100
BL	(0°-30°)	135.6	3.2	B1/500		
BM	(30°-60°)	741.6	17.7	B1/1000		
BH	(60°-80°)	1169.9	28.0	B3/2500		G1/1800
BVH	(80°-90°)	44.2	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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	296.2	296.4	296.5	296.4	296.4	296.2	296.0	296.2	296.0	295.6	295.8
5°	297.1	297.5	297.5	297.1	297.3	297.1	296.7	296.9	296.5	296.0	296.0
7.5°	298.3	298.5	298.5	298.1	298.3	297.9	297.5	297.3	296.9	296.2	295.6
10°	300.0	300.3	300.0	299.6	299.6	299.1	298.1	297.7	296.9	295.8	295.2
12.5°	301.9	302.1	301.9	301.5	301.3	300.4	299.6	299.1	298.5	297.5	296.5
15°	304.7	305.1	304.7	303.8	303.3	302.5	302.1	302.3	302.5	301.8	300.8
17.5°	309.6	309.8	309.2	307.4	306.7	305.9	305.9	306.4	306.9	306.6	305.6
20°	318.8	318.3	316.9	314.7	313.8	312.5	312.3	312.5	312.5	312.3	311.5
22.5°	330.3	330.0	328.3	325.5	324.2	323.4	322.4	321.3	321.1	320.5	319.8
25°	344.1	343.9	341.9	339.6	338.6	337.6	336.6	335.3	334.2	332.8	332.0
27.5°	361.7	361.0	358.0	356.8	355.4	354.9	353.6	352.1	351.0	349.3	348.3
30°	381.2	381.2	378.7	378.2	378.2	377.0	375.5	372.7	371.1	369.3	368.6
32.5°	400.6	400.8	398.2	399.1	399.6	400.6	400.9	400.0	398.8	398.6	397.4
35°	428.6	427.7	425.2	425.9	425.7	425.4	425.4	427.5	428.0	428.4	426.0
37.5°	463.3	463.3	460.7	460.7	459.7	458.5	456.9	458.3	460.4	461.0	459.4
40°	502.9	504.3	501.3	501.1	501.4	497.7	496.0	498.2	499.6	501.8	500.1
42.5°	549.8	548.8	545.8	545.3	543.2	542.2	540.7	542.3	544.4	546.0	546.6
45°	594.7	594.0	590.4	590.4	588.4	587.4	588.2	591.0	591.9	594.1	596.2
47.5°	638.9	638.0	635.7	636.7	636.9	638.6	641.2	643.7	646.5	649.3	650.3
50°	684.3	684.4	682.0	684.3	687.1	691.9	698.6	703.1	708.6	712.3	713.4
52.5°	725.5	726.2	729.0	734.3	740.1	749.5	761.0	771.7	780.9	787.1	786.6
55°	774.9	776.2	782.7	791.9	801.3	815.5	832.5	851.5	866.9	875.7	870.1
57.5°	838.2	840.7	848.1	860.5	874.5	892.9	916.3	945.0	968.7	980.6	971.7
60°	925.2	926.7	935.6	949.4	966.3	989.1	1020.4	1058.7	1092.3	1108.0	1097.6
62.5°	1039.7	1042.6	1049.7	1063.6	1080.9	1106.8	1145.0	1193.0	1234.8	1256.7	1233.2
65°	1176.5	1185.7	1191.6	1205.7	1221.9	1249.4	1289.3	1340.7	1385.6	1399.9	1373.0
67.5°	1311.8	1320.0	1330.3	1346.6	1362.9	1393.8	1430.9	1480.7	1530.0	1543.1	1501.0
70°	1371.2	1375.8	1391.9	1414.2	1445.4	1481.9	1524.6	1580.7	1641.6	1652.4	1599.1
72.5°	1252.4	1257.0	1275.0	1312.9	1367.4	1425.3	1499.9	1582.2	1662.8	1674.8	1601.4
75°	947.3	939.7	966.4	1016.5	1090.0	1170.7	1275.0	1393.0	1509.5	1524.6	1437.0
77.5°	489.6	488.6	508.7	570.9	658.5	750.4	865.4	998.6	1112.6	1158.5	1087.2
80°	137.8	139.5	149.0	180.0	231.2	297.5	387.4	512.2	605.4	653.0	613.1
82.5°	54.1	58.4	62.0	67.7	74.4	84.2	112.4	167.2	224.4	268.1	219.6
85°	19.3	20.8	29.4	34.8	35.3	37.2	42.4	49.5	59.6	71.1	58.5
87.5°	7.3	8.0	9.4	15.6	15.3	13.9	17.1	17.8	13.4	12.2	15.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	295.4	295.6	295.6	295.8	296.0	296.0	296.4	296.4
5°	295.6	295.6	295.2	295.4	295.2	295.2	295.4	295.4
7.5°	295.2	295.0	294.7	294.5	294.1	294.1	294.1	294.1
10°	294.7	294.5	294.1	293.9	293.7	293.7	293.7	293.7
12.5°	296.2	295.6	295.2	295.0	295.0	295.0	295.0	295.0
15°	300.3	298.9	297.9	297.9	298.1	298.5	298.5	298.9
17.5°	305.2	303.6	302.7	301.9	302.3	302.8	303.3	303.6
20°	311.2	310.4	308.9	308.2	308.2	308.9	309.4	309.6
22.5°	319.4	318.8	318.3	317.3	317.3	317.6	318.4	318.4
25°	331.7	331.3	330.9	330.2	330.0	330.0	330.3	330.7
27.5°	347.0	347.2	346.8	346.7	346.1	346.0	346.5	346.3
30°	367.5	368.5	369.6	368.6	367.7	367.1	366.6	365.8
32.5°	395.4	394.2	393.5	392.1	390.4	388.9	387.7	386.3
35°	421.6	419.7	418.9	420.1	419.9	418.9	417.6	416.5
37.5°	453.9	453.5	453.9	455.9	455.6	456.6	453.9	453.7
40°	494.5	495.0	497.5	500.1	501.4	502.8	501.3	499.8
42.5°	541.7	541.5	542.5	546.0	548.3	549.8	546.6	546.2
45°	591.6	590.2	591.0	594.0	596.2	597.9	594.3	594.3
47.5°	646.5	644.2	641.7	644.9	646.3	647.5	644.5	643.5
50°	707.7	702.9	697.5	698.8	698.8	698.5	694.8	694.6
52.5°	777.8	769.0	759.3	755.6	753.5	751.1	744.8	741.8
55°	858.7	845.3	830.1	820.6	815.6	809.3	798.8	795.9
57.5°	953.0	932.3	905.8	894.3	883.2	872.8	861.1	857.9
60°	1064.8	1034.3	999.2	978.0	965.9	955.9	943.8	943.2
62.5°	1189.5	1141.3	1101.7	1082.4	1073.7	1064.8	1053.4	1054.9
65°	1316.3	1266.1	1228.8	1213.4	1205.0	1197.8	1186.2	1187.9
67.5°	1441.3	1395.1	1354.3	1338.4	1329.1	1320.0	1309.6	1311.3
70°	1531.2	1473.8	1427.8	1392.5	1370.4	1345.5	1329.3	1325.4
72.5°	1505.5	1417.0	1344.0	1274.0	1232.9	1199.4	1176.8	1167.1
75°	1302.9	1182.0	1088.0	1002.1	953.8	914.4	885.9	868.1
77.5°	967.6	831.8	720.7	621.6	543.4	490.9	453.9	429.9
80°	529.7	402.8	294.5	206.9	152.1	126.4	111.7	104.6
82.5°	165.0	106.4	78.4	67.7	63.0	60.2	55.8	48.7
85°	52.6	46.0	42.8	40.9	38.9	34.0	23.4	21.3
87.5°	20.3	20.9	20.8	19.5	20.0	14.4	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)