

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: P192529

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4172.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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



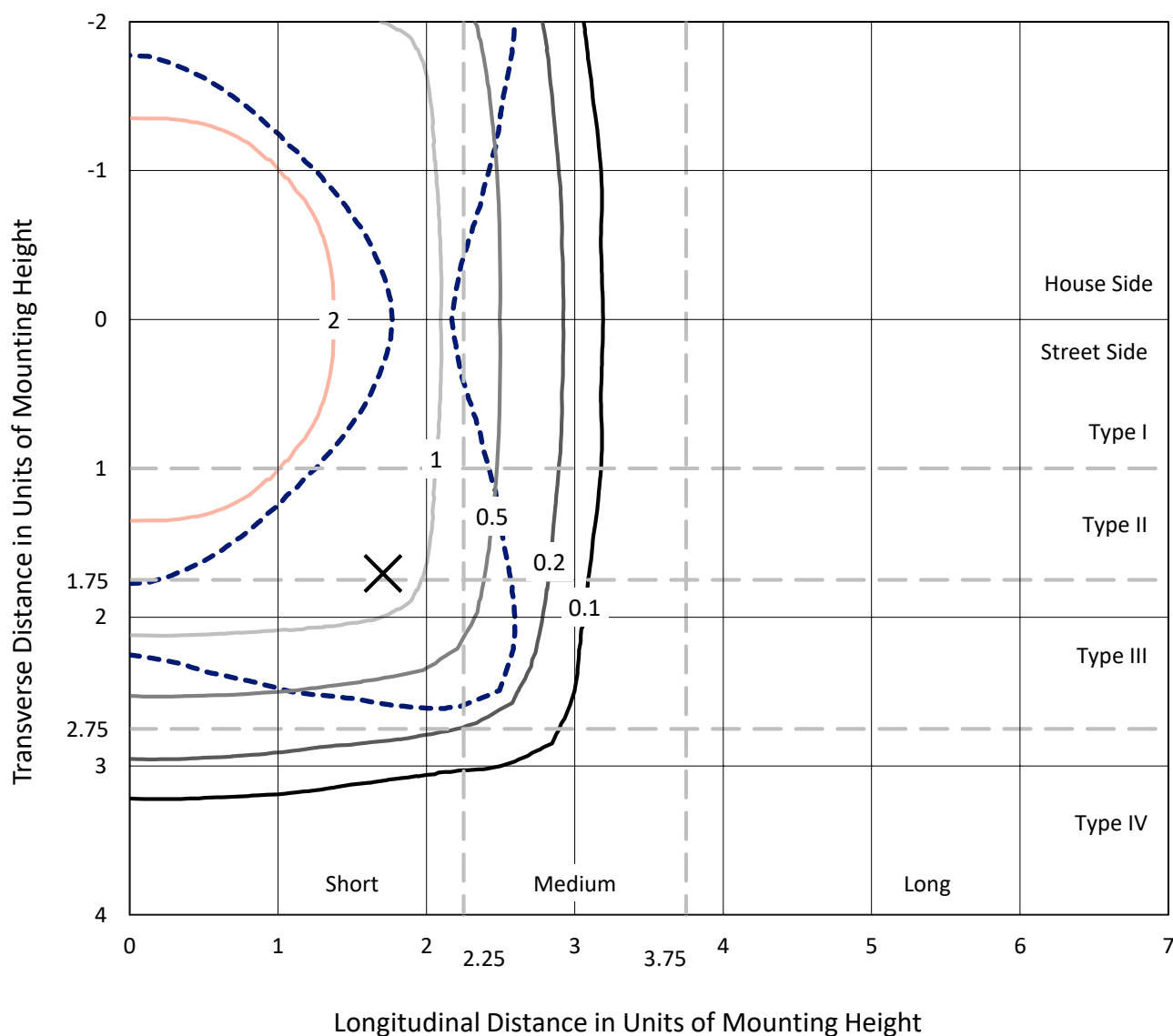
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

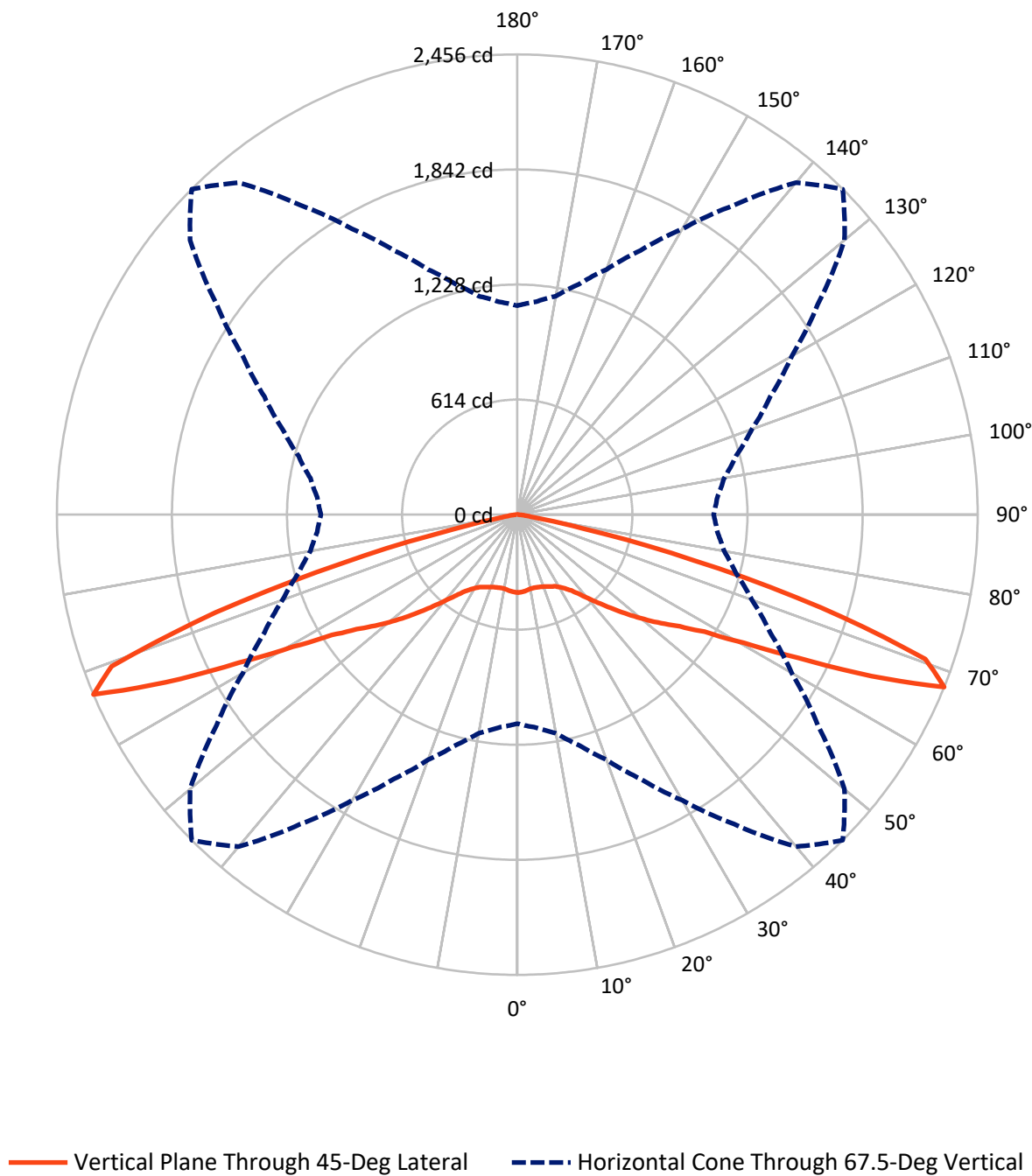


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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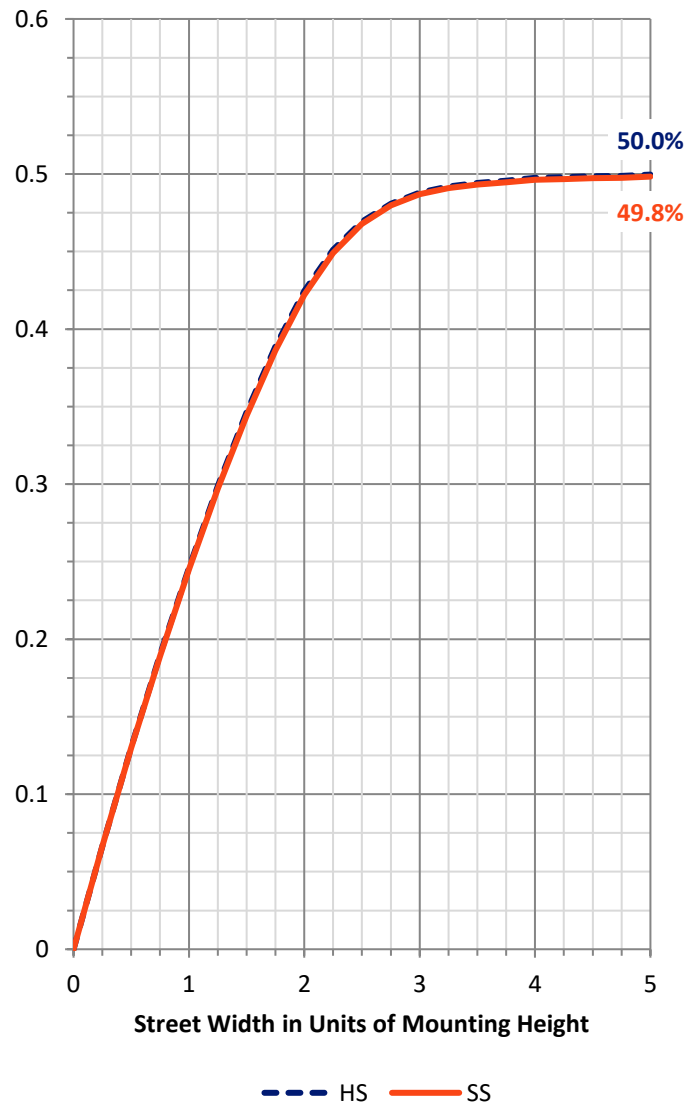
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2086.3	0.0	2086.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2086.3	0.0	2086.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4172.6	0.0	4172.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	0.9
10°-20°	112.9	2.7
20°-30°	192.0	4.6
30°-40°	313.8	7.5
40°-50°	560.3	13.4
50°-60°	944.6	22.6
60°-70°	1465.9	35.1
70°-80°	515.0	12.3
80°-90°	29.1	0.7
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°	4172.6	100.0
0°-180°	4172.6	100.0

Coefficient of Utilization



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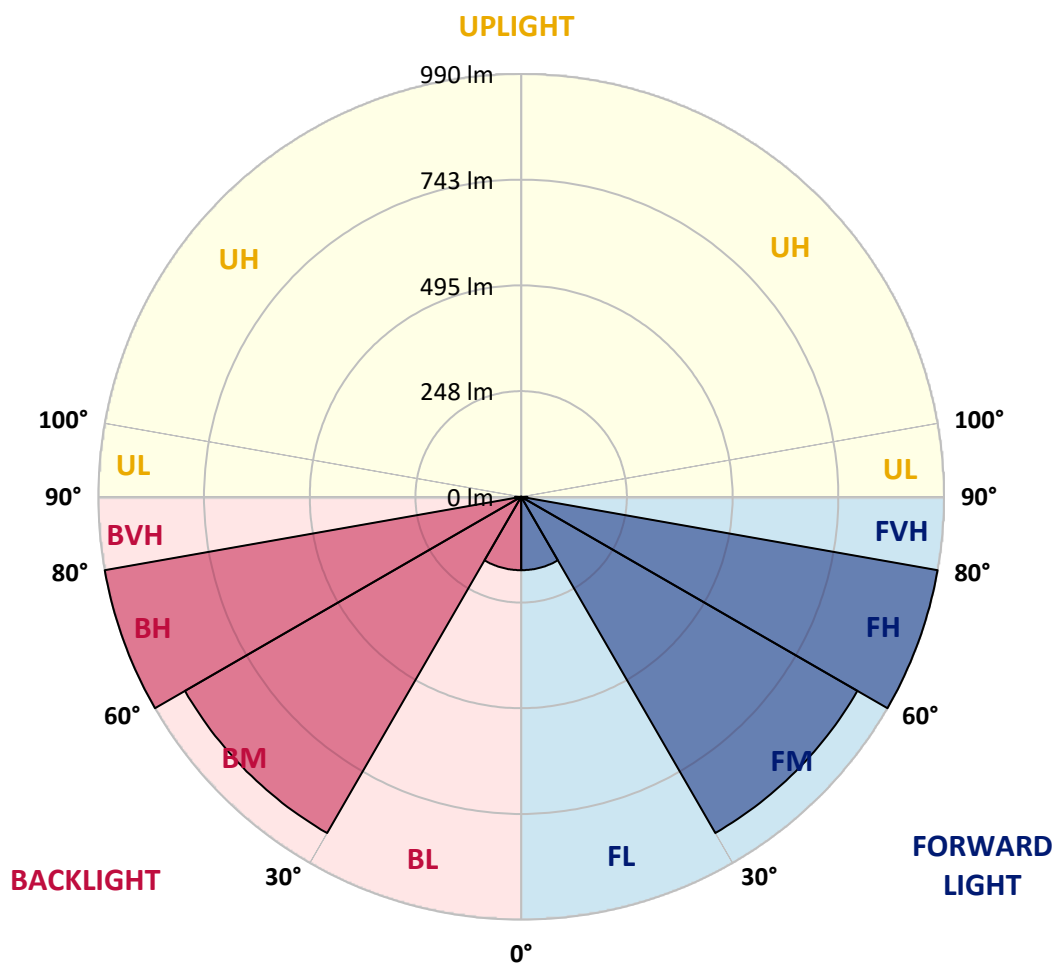
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.9	4.1			
FM	(30°-60°)	909.4	21.8			
FH	(60°-80°)	990.5	23.7			G1/1800
FVH	(80°-90°)	14.5	0.3			G1/100
BL	(0°-30°)	171.9	4.1	B1/500		
BM	(30°-60°)	909.4	21.8	B1/1000		
BH	(60°-80°)	990.5	23.7	B2/1000		G1/1800
BVH	(80°-90°)	14.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	414.3	414.6	414.6	414.6	414.5	414.5	414.1	414.5	414.3	413.6	413.9
5°	410.9	411.3	411.3	411.1	411.6	411.4	410.9	411.3	411.1	410.6	410.9
7.5°	405.8	406.5	406.5	406.2	406.8	406.6	406.2	406.5	406.5	405.8	405.8
10°	400.3	400.7	400.7	400.4	401.4	401.4	401.2	401.8	402.0	401.4	401.1
12.5°	395.1	395.6	395.6	396.4	397.3	397.8	398.7	399.6	400.3	400.1	399.4
15°	392.0	392.5	393.3	394.1	395.6	397.0	398.6	400.3	401.8	402.2	401.1
17.5°	390.0	390.7	391.8	393.3	395.3	397.6	399.9	402.2	404.3	405.1	403.7
20°	389.5	389.9	391.0	393.4	396.3	399.7	402.9	405.7	408.5	409.5	408.5
22.5°	390.7	391.4	392.8	395.5	399.4	403.7	407.5	411.3	414.8	416.6	415.3
25°	395.8	396.6	398.4	401.8	406.0	410.6	415.0	419.2	422.5	424.3	423.3
27.5°	405.5	406.5	408.5	412.0	416.6	421.5	426.3	429.8	432.5	433.1	431.9
30°	419.9	422.0	424.5	428.3	433.6	437.9	442.7	445.8	449.0	449.0	448.1
32.5°	442.3	444.3	447.1	450.7	454.9	459.6	463.8	466.4	470.0	470.2	467.8
35°	476.0	476.8	479.1	481.4	485.3	489.3	493.0	494.7	497.5	497.7	495.6
37.5°	520.2	520.4	521.9	522.7	526.2	530.6	534.1	535.2	537.9	537.4	535.4
40°	571.9	572.7	573.4	574.4	578.2	582.4	586.0	586.6	589.5	588.9	586.1
42.5°	631.5	631.8	635.2	636.9	640.4	642.5	647.1	647.6	651.0	649.5	646.5
45°	698.5	701.9	704.9	708.4	712.1	714.5	718.3	717.5	719.8	717.5	715.7
47.5°	768.8	771.4	778.3	783.7	789.6	791.7	796.9	794.7	796.9	793.7	793.1
50°	846.4	850.8	856.8	862.9	869.2	872.7	879.4	876.6	879.6	876.6	874.8
52.5°	922.8	923.9	937.0	945.9	954.8	958.9	962.9	961.6	961.7	961.6	959.9
55°	995.4	998.0	1011.0	1023.3	1038.7	1050.0	1056.9	1056.1	1054.5	1052.7	1049.8
57.5°	1077.1	1079.7	1094.7	1109.8	1127.3	1143.4	1157.5	1171.8	1177.4	1178.9	1172.6
60°	1187.5	1187.4	1207.4	1225.8	1250.7	1274.7	1305.4	1336.7	1372.6	1389.2	1367.2
62.5°	1300.0	1304.7	1333.4	1366.1	1417.4	1467.6	1524.1	1579.8	1636.6	1682.8	1633.8
65°	1286.6	1304.2	1347.0	1420.9	1515.9	1628.7	1750.8	1880.0	1996.6	2076.8	1986.8
67.5°	1115.1	1140.2	1183.8	1273.5	1392.3	1555.1	1759.9	2015.4	2312.3	2455.7	2277.8
70°	808.2	836.6	882.3	970.0	1087.5	1242.3	1464.8	1771.5	2164.5	2309.2	2113.3
72.5°	402.2	417.6	445.8	501.6	590.6	716.0	918.0	1212.8	1560.4	1693.2	1514.3
75°	136.6	143.6	148.5	166.7	194.9	244.3	344.6	530.2	808.8	969.5	797.3
77.5°	78.8	79.1	82.3	85.5	90.3	95.7	109.2	143.3	247.9	352.2	256.5
80°	51.1	50.8	53.5	56.0	59.3	62.0	62.8	66.4	76.6	90.8	81.2
82.5°	26.4	29.7	35.7	39.0	45.2	46.2	44.7	43.3	45.9	47.6	48.7
85°	14.5	12.7	19.0	24.6	27.2	27.7	27.7	26.1	27.1	26.4	28.7
87.5°	6.7	6.1	7.4	12.1	12.9	10.9	11.5	10.2	7.3	7.1	8.0
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°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	413.9	414.1	414.1	414.6	414.8	415.3	415.6	415.8
5°	410.6	411.3	410.9	411.4	411.4	411.8	411.8	412.0
7.5°	405.8	406.5	406.5	406.5	406.2	406.8	406.8	406.8
10°	400.9	401.2	401.1	400.7	400.3	400.9	400.7	400.4
12.5°	399.4	398.4	397.6	397.1	396.4	396.6	396.1	396.1
15°	400.3	398.6	397.1	396.6	395.8	395.5	395.1	395.3
17.5°	402.7	400.7	398.9	397.9	397.0	396.4	395.6	395.8
20°	407.2	404.7	402.2	400.3	398.6	397.6	397.0	396.8
22.5°	413.6	410.0	406.5	403.5	401.2	399.9	399.4	398.9
25°	421.2	417.2	412.9	409.7	407.4	405.7	404.5	404.5
27.5°	430.6	427.3	423.5	419.7	417.6	415.8	415.0	414.6
30°	446.4	443.3	440.2	436.5	433.9	432.1	430.8	429.6
32.5°	466.4	464.1	461.5	458.8	456.2	454.0	451.9	450.9
35°	494.8	493.0	491.2	488.2	487.2	485.8	484.7	483.8
37.5°	534.1	533.3	533.3	530.0	529.3	528.6	527.5	527.7
40°	585.4	586.1	585.3	584.1	583.6	582.1	582.1	583.3
42.5°	646.3	646.9	649.0	647.1	649.1	647.3	646.0	647.1
45°	716.8	719.0	723.2	721.3	722.6	719.4	715.3	715.5
47.5°	796.2	798.0	799.8	798.4	798.6	793.2	787.9	786.5
50°	878.5	879.2	880.2	878.2	878.7	872.7	866.5	866.8
52.5°	959.9	963.4	967.3	962.1	960.9	954.3	945.6	942.2
55°	1052.9	1058.0	1053.7	1044.6	1035.6	1026.6	1015.2	1013.4
57.5°	1167.7	1158.8	1145.0	1127.9	1115.4	1102.8	1091.3	1086.5
60°	1327.3	1294.0	1269.1	1243.8	1227.8	1212.3	1197.2	1194.9
62.5°	1552.9	1495.5	1445.8	1393.5	1350.7	1317.3	1290.7	1283.1
65°	1835.8	1700.1	1582.5	1472.7	1377.3	1305.4	1260.1	1240.2
67.5°	1957.5	1689.5	1487.9	1332.1	1207.4	1120.2	1071.3	1046.9
70°	1720.1	1401.1	1181.8	1025.8	912.2	819.3	774.9	749.0
72.5°	1183.4	891.3	704.8	575.2	484.6	406.8	376.1	373.7
75°	531.3	352.0	242.5	187.0	157.4	136.8	130.4	125.6
77.5°	148.7	110.0	98.0	91.7	85.5	78.4	75.8	76.4
80°	72.3	68.3	65.7	61.6	56.0	50.0	47.4	48.5
82.5°	48.0	47.4	49.1	46.2	38.1	32.4	27.2	24.9
85°	29.2	29.5	30.1	30.3	25.6	18.0	12.2	13.7
87.5°	11.5	13.2	14.4	15.0	13.9	8.6	6.9	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)