

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: P192571

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11945.3 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 96
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

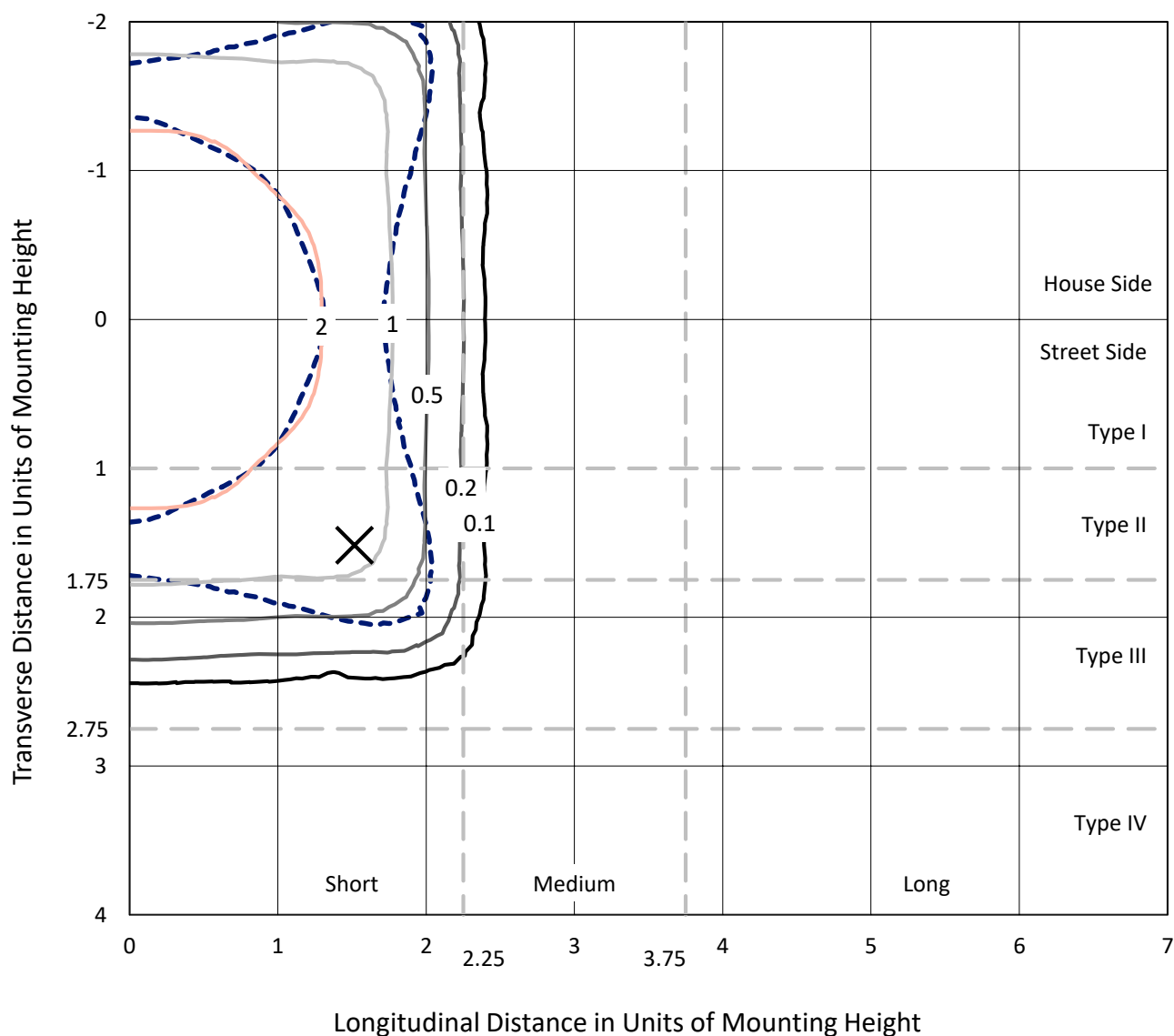


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

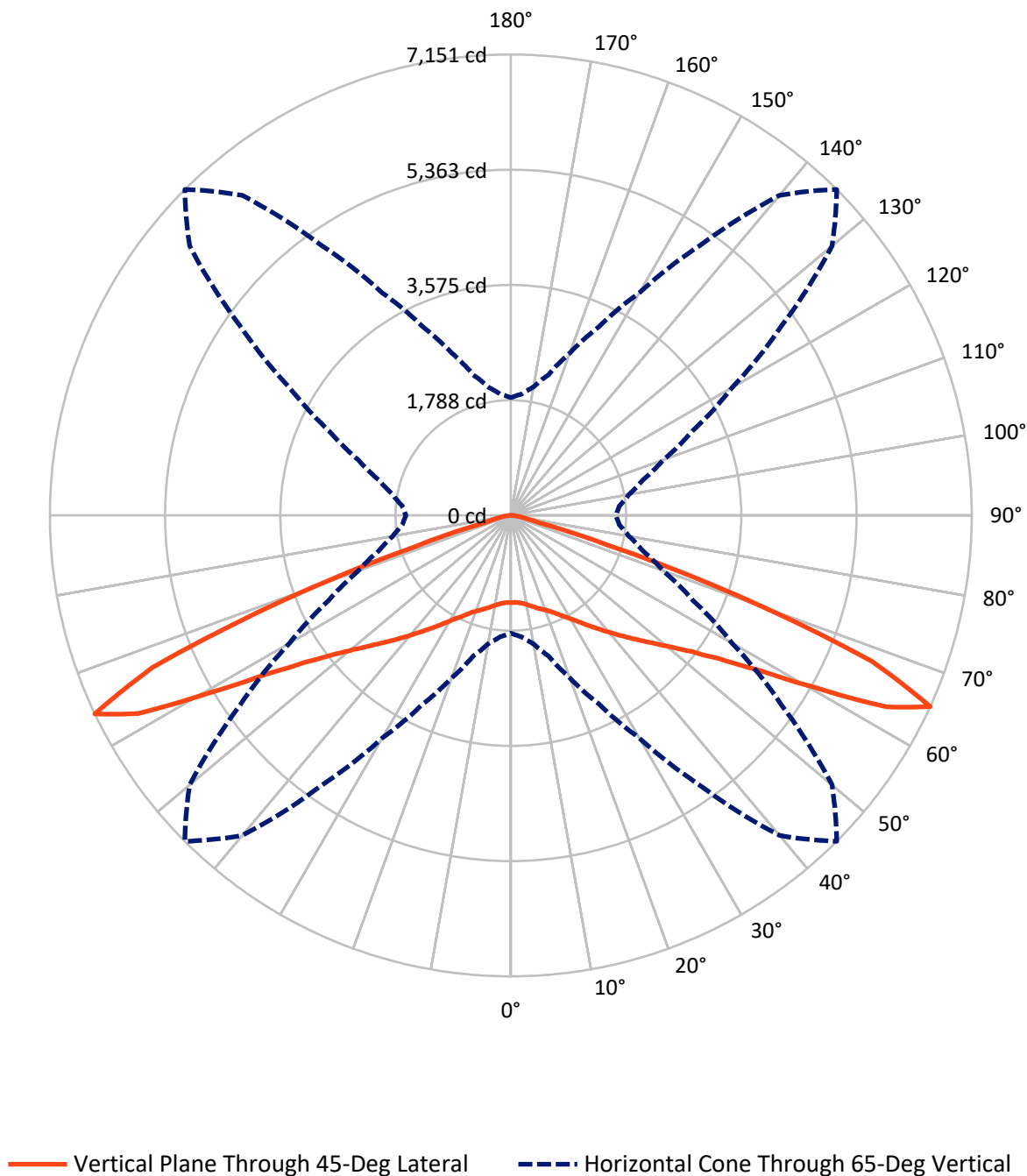


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5972.6	0.0	5972.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5972.6	0.0	5972.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11945.3	0.0	11945.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	1.1
10°-20°	422.5	3.5
20°-30°	790.0	6.6
30°-40°	1336.1	11.2
40°-50°	2184.7	18.3
50°-60°	3474.1	29.1
60°-70°	3140.3	26.3
70°-80°	397.4	3.3
80°-90°	68.4	0.6
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°	11945.3	100.0
0°-180°	11945.3	100.0

Coefficient of Utilization



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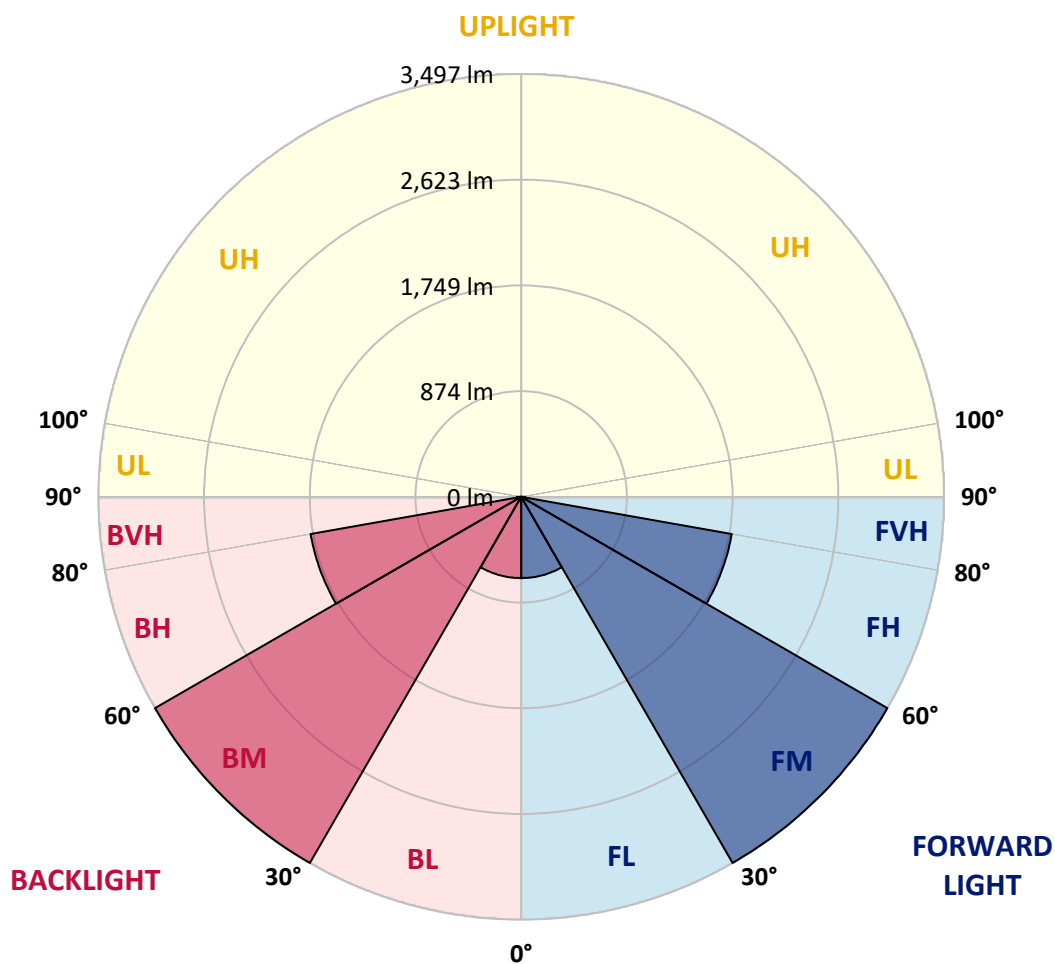
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.1	5.6			
FM	(30°-60°)	3497.5	29.3			
FH	(60°-80°)	1768.9	14.8			G1/1800
FVH	(80°-90°)	34.2	0.3			G1/100
BL	(0°-30°)	672.1	5.6	B2/1000		
BM	(30°-60°)	3497.5	29.3	B3/5000		
BH	(60°-80°)	1768.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	34.2	0.3			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°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1352.7	1353.8	1355.0	1353.8	1355.0	1353.2	1352.2	1353.8	1352.2	1350.6	1351.6
5°	1364.5	1365.0	1365.0	1363.3	1365.0	1363.9	1362.3	1364.5	1362.8	1361.2	1362.3
7.5°	1384.1	1386.3	1384.7	1382.9	1384.1	1382.9	1381.8	1382.3	1381.8	1380.2	1380.7
10°	1410.3	1412.0	1411.0	1410.3	1411.5	1411.0	1409.8	1409.2	1409.8	1408.2	1408.2
12.5°	1442.2	1441.6	1441.1	1441.6	1443.4	1443.4	1442.8	1443.4	1444.5	1445.1	1444.0
15°	1473.6	1474.7	1474.7	1474.7	1478.1	1480.9	1482.5	1483.6	1485.9	1486.5	1484.2
17.5°	1512.7	1512.7	1512.1	1512.7	1516.1	1520.6	1522.2	1524.5	1526.7	1528.4	1525.6
20°	1556.4	1557.5	1557.5	1558.6	1563.1	1568.1	1568.1	1569.3	1568.1	1569.3	1567.6
22.5°	1609.5	1612.8	1612.8	1613.4	1617.9	1624.0	1622.4	1624.0	1621.3	1623.5	1621.3
25°	1678.9	1683.9	1682.8	1682.8	1686.2	1690.1	1690.7	1693.9	1693.4	1696.2	1694.6
27.5°	1757.2	1765.1	1767.3	1766.7	1769.0	1772.8	1774.1	1777.8	1775.7	1777.8	1776.8
30°	1851.2	1854.5	1859.0	1860.6	1863.5	1867.5	1867.5	1868.0	1865.2	1868.6	1870.2
32.5°	1948.5	1954.6	1959.1	1969.3	1974.4	1977.0	1976.5	1977.6	1974.9	1979.3	1982.6
35°	2077.2	2081.7	2088.9	2096.8	2103.5	2102.9	2101.3	2101.8	2101.8	2105.8	2109.1
37.5°	2232.1	2233.3	2242.8	2254.0	2257.4	2254.0	2243.9	2241.7	2236.6	2241.7	2247.3
40°	2396.0	2400.0	2419.0	2426.3	2428.0	2421.8	2407.3	2398.9	2387.8	2393.9	2401.7
42.5°	2567.8	2575.7	2593.0	2606.0	2611.6	2607.6	2587.5	2574.5	2560.1	2563.3	2571.2
45°	2758.0	2767.5	2792.2	2804.4	2815.2	2808.9	2789.4	2769.8	2746.9	2748.5	2760.9
47.5°	2970.6	2980.1	3012.1	3032.7	3038.4	3037.2	3015.4	2988.6	2957.2	2956.1	2966.7
50°	3209.0	3218.4	3258.2	3290.2	3306.3	3304.6	3278.9	3240.8	3202.8	3203.4	3216.8
52.5°	3441.6	3453.4	3494.8	3549.8	3581.5	3604.5	3588.8	3553.0	3506.5	3507.8	3520.0
55°	3659.8	3679.5	3727.1	3801.4	3860.6	3925.0	3943.5	3942.4	3914.4	3922.3	3934.5
57.5°	3765.6	3794.7	3868.0	3985.4	4106.3	4237.2	4348.0	4430.8	4466.1	4519.2	4506.8
60°	3565.3	3611.8	3719.7	3892.6	4131.5	4404.5	4697.0	4983.0	5226.9	5410.9	5305.2
62.5°	2919.2	2979.6	3110.5	3332.1	3693.5	4130.3	4690.4	5366.2	6102.4	6546.6	6229.4
65°	1826.6	1889.2	2022.4	2259.6	2682.6	3225.8	3985.4	5105.4	6481.2	7150.8	6505.2
67.5°	712.2	746.4	818.5	970.1	1287.8	1771.2	2533.7	3804.7	5450.1	6037.0	5348.9
70°	356.9	360.3	373.6	401.6	470.0	610.3	928.7	1763.9	3125.6	3775.1	3013.2
72.5°	257.9	258.5	265.2	277.5	299.3	330.6	391.0	539.8	1016.5	1553.5	952.7
75°	197.4	199.7	203.7	210.4	222.2	237.7	259.6	311.1	385.4	447.0	376.0
77.5°	152.2	156.7	159.4	165.6	172.8	183.4	189.7	209.2	243.3	256.2	252.3
80°	115.9	119.7	125.8	130.9	135.9	141.0	138.8	147.7	165.6	176.2	170.7
82.5°	73.9	78.3	96.2	100.7	102.9	106.3	102.3	102.9	110.8	117.5	110.8
85°	47.5	50.4	60.9	66.5	67.0	69.4	67.7	63.8	63.8	58.2	65.4
87.5°	21.9	22.4	27.5	32.4	33.6	30.1	29.6	28.5	23.0	21.9	23.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1351.1	1352.2	1352.7	1354.4	1355.0	1355.0	1355.6	1356.7
5°	1361.7	1363.3	1363.9	1366.2	1366.8	1366.2	1367.3	1367.8
7.5°	1380.7	1383.5	1384.7	1386.8	1385.2	1387.4	1388.0	1388.0
10°	1408.7	1411.5	1412.0	1414.3	1413.2	1414.3	1414.3	1413.2
12.5°	1445.6	1446.1	1444.5	1446.1	1444.0	1445.1	1443.4	1442.2
15°	1486.5	1484.8	1480.9	1480.9	1477.5	1478.1	1477.5	1476.9
17.5°	1526.2	1522.8	1520.1	1518.9	1516.1	1515.5	1513.9	1513.9
20°	1569.8	1568.1	1566.4	1564.1	1561.5	1558.6	1558.0	1559.1
22.5°	1622.4	1621.9	1621.9	1620.8	1616.8	1614.0	1612.3	1612.3
25°	1692.9	1687.8	1687.8	1687.3	1685.7	1683.9	1680.6	1682.3
27.5°	1772.3	1769.6	1771.7	1771.2	1769.6	1769.6	1767.3	1767.3
30°	1870.2	1869.1	1872.4	1869.7	1864.1	1863.5	1861.2	1858.5
32.5°	1983.3	1982.1	1987.1	1983.8	1974.9	1969.8	1965.3	1963.1
35°	2109.1	2109.7	2115.8	2113.6	2103.5	2100.2	2092.4	2091.2
37.5°	2246.7	2255.6	2266.4	2268.5	2260.1	2258.0	2249.5	2245.1
40°	2408.4	2420.2	2436.4	2440.3	2431.3	2429.7	2417.9	2411.8
42.5°	2580.7	2600.8	2621.0	2624.4	2615.4	2606.5	2595.2	2590.7
45°	2773.2	2797.2	2823.5	2830.3	2816.8	2806.3	2791.7	2791.7
47.5°	2989.2	3019.3	3049.0	3067.5	3055.1	3044.0	3026.6	3015.4
50°	3244.2	3285.7	3324.2	3343.3	3323.6	3302.4	3272.2	3262.2
52.5°	3564.2	3609.0	3642.6	3632.5	3602.3	3572.7	3539.6	3526.3
55°	3972.6	3987.8	3987.8	3949.7	3889.3	3839.5	3787.5	3770.1
57.5°	4483.4	4425.2	4335.7	4222.1	4079.5	3955.3	3871.4	3831.6
60°	5083.8	4803.9	4487.9	4177.4	3922.3	3711.9	3587.2	3530.0
62.5°	5483.7	4751.9	4118.6	3620.2	3253.2	2999.7	2827.4	2760.3
65°	5125.1	3963.2	3115.0	2518.7	2118.6	1860.6	1690.1	1627.4
67.5°	3753.8	2483.4	1658.8	1188.8	871.1	694.8	624.9	595.8
70°	1685.0	874.4	535.9	418.5	360.9	331.2	318.3	313.9
72.5°	507.9	367.5	310.0	279.7	256.8	242.2	231.6	230.5
75°	306.6	255.1	226.6	208.6	194.2	182.4	176.8	175.2
77.5°	214.2	187.4	173.9	161.1	149.9	141.0	135.9	131.9
80°	150.4	137.6	131.4	124.2	116.9	108.5	101.3	97.9
82.5°	100.7	97.9	97.9	93.4	87.3	79.4	64.9	61.5
85°	64.9	64.4	65.4	63.8	59.3	51.0	41.9	39.8
87.5°	30.1	30.8	34.1	33.6	32.4	26.9	21.3	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)