

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: P269143

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 124
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

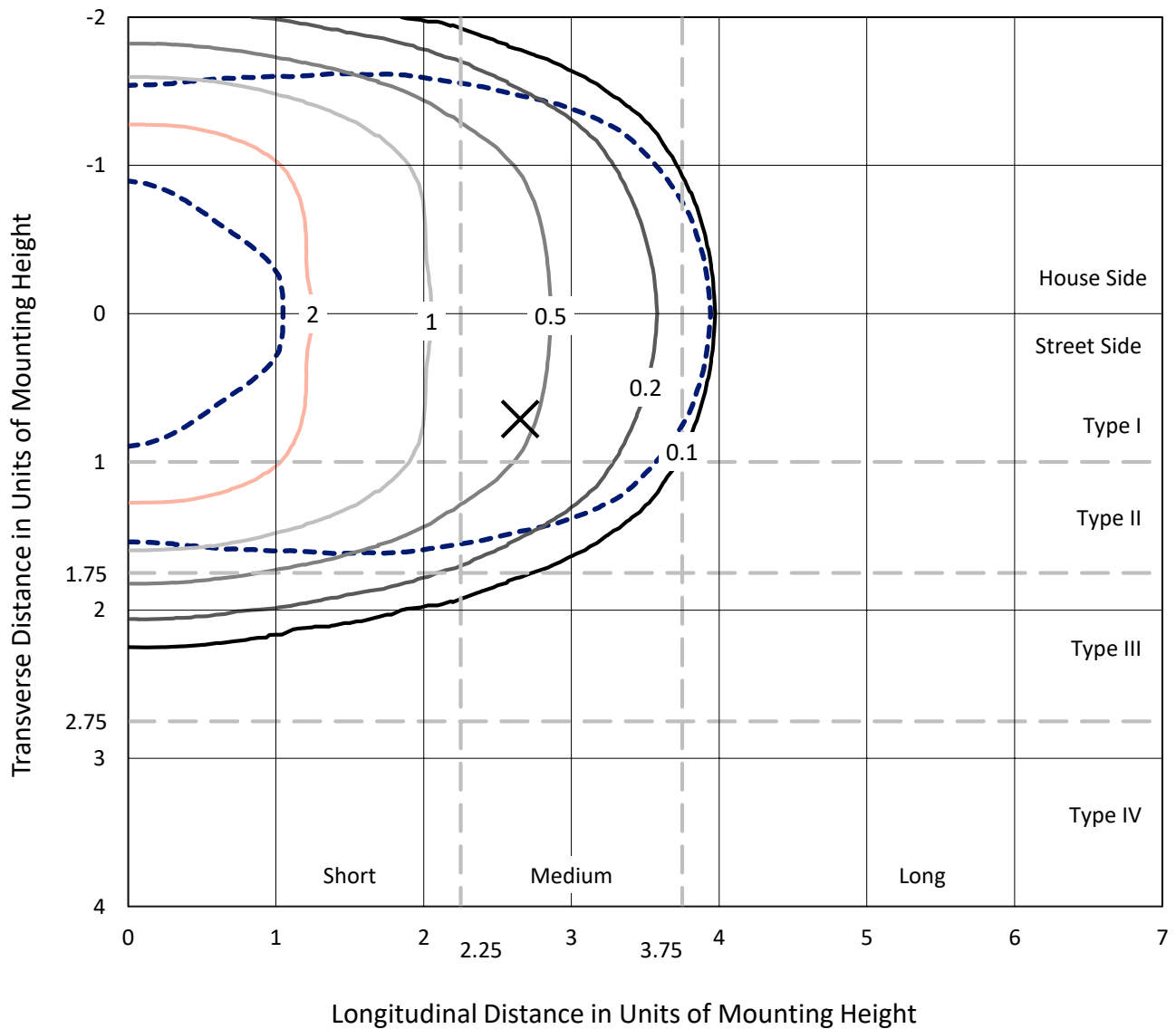


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

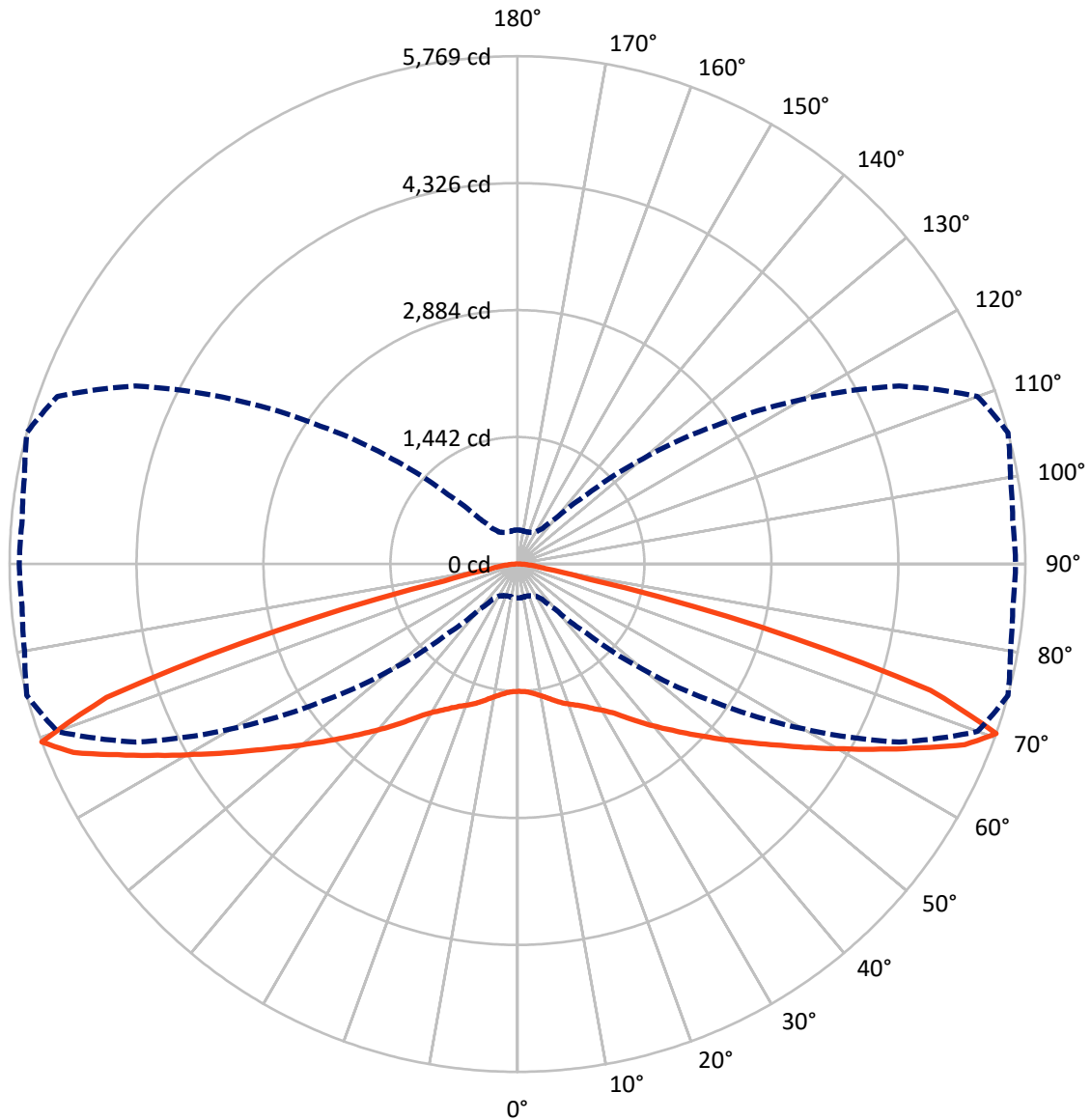


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6520.0	0.0	6520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6520.0	0.0	6520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13040.0	0.0	13040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.1
10°-20°	431.0	3.3
20°-30°	811.3	6.2
30°-40°	1436.6	11.0
40°-50°	2402.5	18.4
50°-60°	3347.9	25.7
60°-70°	3104.6	23.8
70°-80°	1237.3	9.5
80°-90°	130.1	1.0
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°	13040.0	100.0
0°-180°	13040.0	100.0



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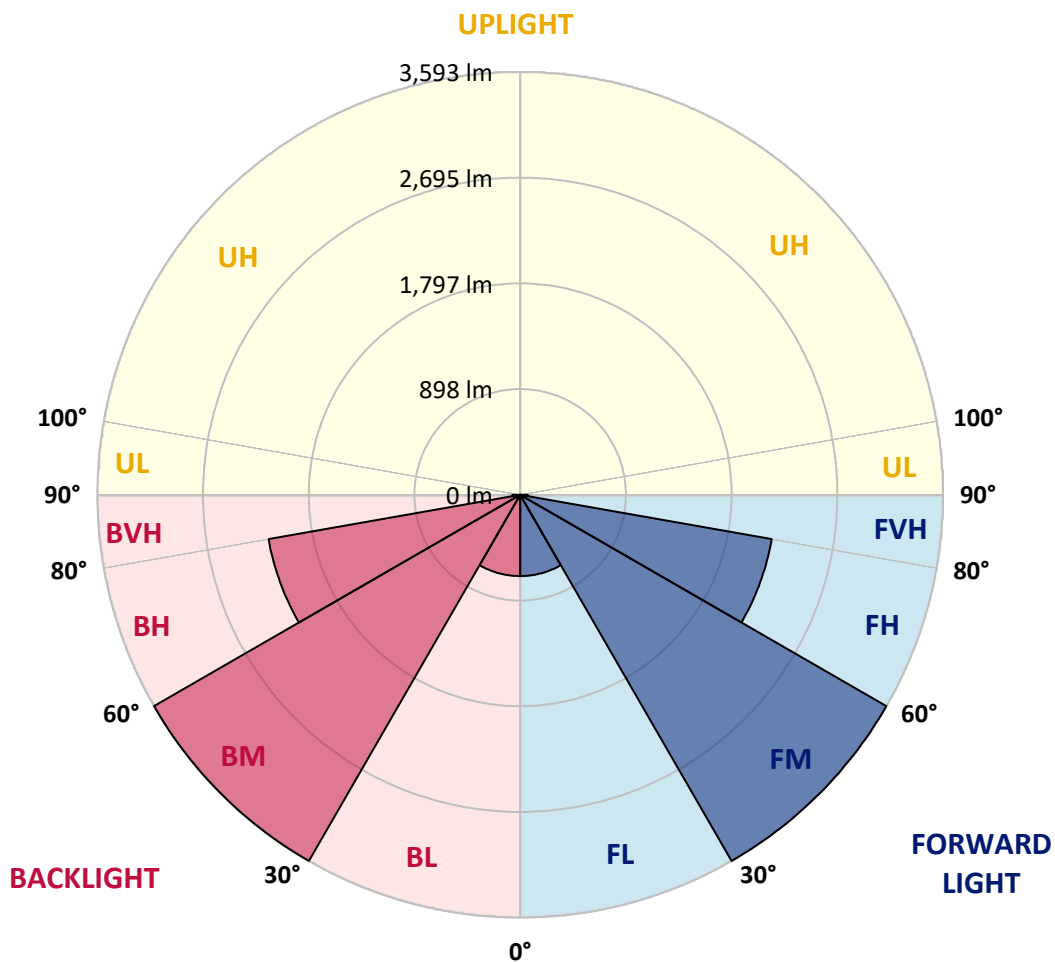
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.5	5.3			
FM (30°-60°)	3593.5	27.6			
FH (60°-80°)	2170.9	16.6			G2/5000
FVH (80°-90°)	65.0	0.5			G1/100
BL (0°-30°)	690.5	5.3	B2/1000		
BM (30°-60°)	3593.5	27.6	B3/5000		
BH (60°-80°)	2170.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1443.9	1442.8	1443.9	1443.3	1444.6	1444.6	1445.8	1448.2	1448.2	1450.1	1449.5
5°	1429.8	1429.2	1431.0	1432.8	1434.8	1438.5	1442.0	1447.7	1452.0	1455.1	1458.2
7.5°	1402.1	1402.1	1404.5	1408.8	1413.2	1421.2	1429.8	1440.9	1452.0	1461.3	1469.3
10°	1379.3	1380.4	1383.6	1390.9	1398.3	1410.7	1422.3	1438.5	1453.8	1469.3	1481.6
12.5°	1365.8	1367.6	1373.1	1384.2	1396.5	1413.2	1431.0	1451.4	1468.5	1487.1	1499.5
15°	1370.0	1371.3	1379.3	1392.8	1408.8	1429.8	1453.8	1477.9	1498.3	1518.0	1534.6
17.5°	1394.1	1395.8	1405.2	1420.6	1437.2	1461.8	1487.8	1514.8	1540.1	1562.3	1582.6
20°	1437.2	1439.1	1450.8	1467.4	1487.1	1512.3	1538.3	1566.6	1595.0	1618.3	1641.2
22.5°	1498.3	1501.2	1512.3	1529.1	1551.3	1578.3	1609.1	1639.3	1666.4	1688.1	1708.3
25°	1578.3	1585.1	1595.6	1614.1	1637.5	1662.1	1695.5	1726.3	1752.1	1772.4	1787.3
27.5°	1691.7	1701.0	1708.9	1726.8	1749.7	1773.1	1806.3	1833.5	1858.1	1877.8	1889.0
30°	1842.2	1851.3	1859.3	1876.6	1897.6	1919.8	1951.2	1975.3	1990.6	2006.1	2005.3
32.5°	2024.5	2034.4	2037.4	2056.0	2077.5	2101.6	2129.9	2143.4	2155.8	2157.5	2146.5
35°	2228.5	2233.5	2245.8	2270.5	2295.1	2314.8	2341.9	2348.7	2348.7	2339.5	2314.8
37.5°	2452.3	2455.2	2472.6	2500.3	2525.6	2545.8	2564.4	2578.0	2571.2	2551.5	2510.1
40°	2697.5	2703.1	2727.8	2752.3	2780.8	2799.7	2819.5	2821.9	2815.2	2786.3	2730.2
42.5°	2931.7	2936.6	2961.4	3000.1	3037.1	3063.6	3082.1	3085.8	3064.2	3037.7	2968.1
45°	3133.2	3146.1	3178.3	3223.7	3277.5	3315.0	3340.3	3350.8	3331.6	3297.1	3216.4
47.5°	3292.8	3305.9	3351.3	3405.7	3472.2	3533.3	3575.2	3597.4	3592.3	3566.5	3478.3
50°	3410.0	3422.3	3471.6	3538.2	3615.8	3691.6	3763.1	3816.1	3834.5	3822.8	3742.1
52.5°	3423.5	3443.8	3501.8	3591.2	3692.3	3795.8	3897.4	3987.3	4048.4	4057.6	3997.8
55°	3234.3	3254.6	3334.8	3467.3	3617.7	3786.4	3949.2	4100.9	4221.0	4282.6	4251.1
57.5°	2788.1	2824.5	2908.9	3064.2	3285.5	3538.2	3797.6	4066.8	4311.5	4474.8	4506.3
60°	2136.7	2179.8	2264.8	2430.1	2676.6	2977.9	3324.3	3722.3	4154.4	4521.7	4741.2
62.5°	1370.6	1411.2	1500.7	1644.3	1845.2	2171.8	2543.5	3016.1	3596.6	4176.6	4699.3
65°	704.5	726.5	773.4	860.3	1016.9	1261.0	1594.3	2065.8	2729.6	3445.1	4200.7
67.5°	446.2	450.5	461.0	473.2	513.4	597.8	753.0	1047.1	1593.1	2339.5	3223.7
70°	385.8	385.8	380.9	379.1	383.9	395.7	419.7	488.0	672.4	1110.6	1859.3
72.5°	353.2	349.4	340.7	334.0	332.8	332.8	337.8	348.3	377.7	452.3	727.8
75°	325.4	314.9	303.2	295.3	292.0	289.1	288.4	290.3	296.4	308.2	347.6
77.5°	291.5	277.9	264.5	256.3	252.7	248.4	244.7	240.3	237.2	240.9	258.3
80°	250.8	235.4	224.9	220.1	216.3	210.2	202.2	194.8	187.9	186.8	197.2
82.5°	202.2	184.2	185.0	186.8	180.0	171.3	162.8	154.7	143.0	136.8	143.0
85°	163.3	154.1	149.7	161.4	151.6	138.7	125.1	110.9	92.4	77.7	84.4
87.5°	63.5	63.5	95.0	146.1	131.2	107.3	91.8	78.2	48.7	37.5	38.2
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°	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1448.8	1450.1	1449.5	1448.8	1448.8	1448.2	1448.8	1448.8
5°	1459.9	1463.1	1463.1	1464.2	1464.2	1465.0	1465.6	1465.0
7.5°	1476.6	1482.2	1485.8	1490.2	1490.7	1491.5	1492.7	1491.5
10°	1493.3	1504.4	1512.3	1520.4	1524.1	1525.3	1526.6	1526.6
12.5°	1514.3	1529.6	1543.7	1558.0	1564.8	1568.5	1568.5	1571.0
15°	1548.8	1564.2	1580.7	1599.9	1611.6	1617.8	1619.6	1619.6
17.5°	1597.5	1611.0	1625.2	1643.7	1658.5	1666.4	1668.3	1667.8
20°	1654.0	1667.1	1675.1	1686.7	1699.8	1708.9	1711.5	1711.5
22.5°	1718.8	1726.3	1727.5	1731.2	1741.6	1754.0	1759.5	1760.8
25°	1790.3	1792.2	1787.3	1787.3	1794.1	1805.8	1811.3	1811.9
27.5°	1882.8	1873.5	1861.2	1856.8	1861.2	1874.8	1881.5	1883.9
30°	1998.0	1975.8	1947.4	1932.1	1929.6	1947.4	1959.8	1961.7
32.5°	2129.9	2097.8	2060.3	2028.8	2020.7	2032.0	2046.7	2046.1
35°	2286.5	2248.3	2202.6	2162.6	2144.1	2155.2	2176.1	2178.6
37.5°	2467.0	2417.1	2364.7	2314.2	2285.2	2288.3	2310.5	2317.8
40°	2668.5	2603.8	2537.9	2470.1	2428.7	2420.8	2447.9	2452.3
42.5°	2884.3	2801.1	2717.8	2634.0	2581.0	2568.8	2600.1	2598.3
45°	3114.2	3008.2	2910.8	2818.3	2755.5	2737.0	2762.8	2762.8
47.5°	3361.3	3230.7	3114.8	3010.0	2941.6	2915.1	2939.8	2941.6
50°	3623.1	3484.5	3348.3	3231.8	3149.8	3116.0	3148.0	3153.0
52.5°	3883.8	3748.8	3611.5	3478.3	3379.2	3337.8	3374.8	3390.8
55°	4148.3	4015.8	3884.5	3754.5	3636.8	3588.0	3627.4	3647.8
57.5°	4427.4	4304.8	4179.6	4048.4	3935.0	3859.2	3901.1	3928.3
60°	4754.6	4649.9	4519.9	4375.0	4260.4	4183.3	4207.4	4231.5
62.5°	5013.5	5054.3	4943.9	4776.3	4629.0	4530.3	4553.8	4579.0
65°	4888.4	5305.7	5403.7	5234.2	5030.1	4876.7	4866.8	4879.9
67.5°	4086.0	4896.4	5487.4	5648.9	5478.3	5265.0	5225.5	5244.7
70°	2733.3	3742.8	4785.5	5562.0	5768.5	5685.9	5647.0	5658.9
72.5°	1312.8	2179.8	3246.7	4278.8	4907.5	5195.9	5288.4	5333.3
75°	480.1	865.2	1564.8	2358.0	2846.6	3295.3	3588.0	3707.7
77.5°	289.7	349.4	499.7	752.5	852.3	954.0	914.6	934.2
80°	214.4	242.3	274.3	308.2	319.3	319.3	307.0	297.1
82.5°	150.3	168.3	183.7	202.2	207.1	197.8	162.8	129.4
85°	96.7	104.7	111.6	123.2	120.2	114.7	77.1	68.5
87.5°	44.3	50.6	53.0	58.6	56.1	53.5	38.2	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)