

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: P595776

Luminaire Tested: **ISW-PA1E-730-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1E-730-U-T2R  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9407 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

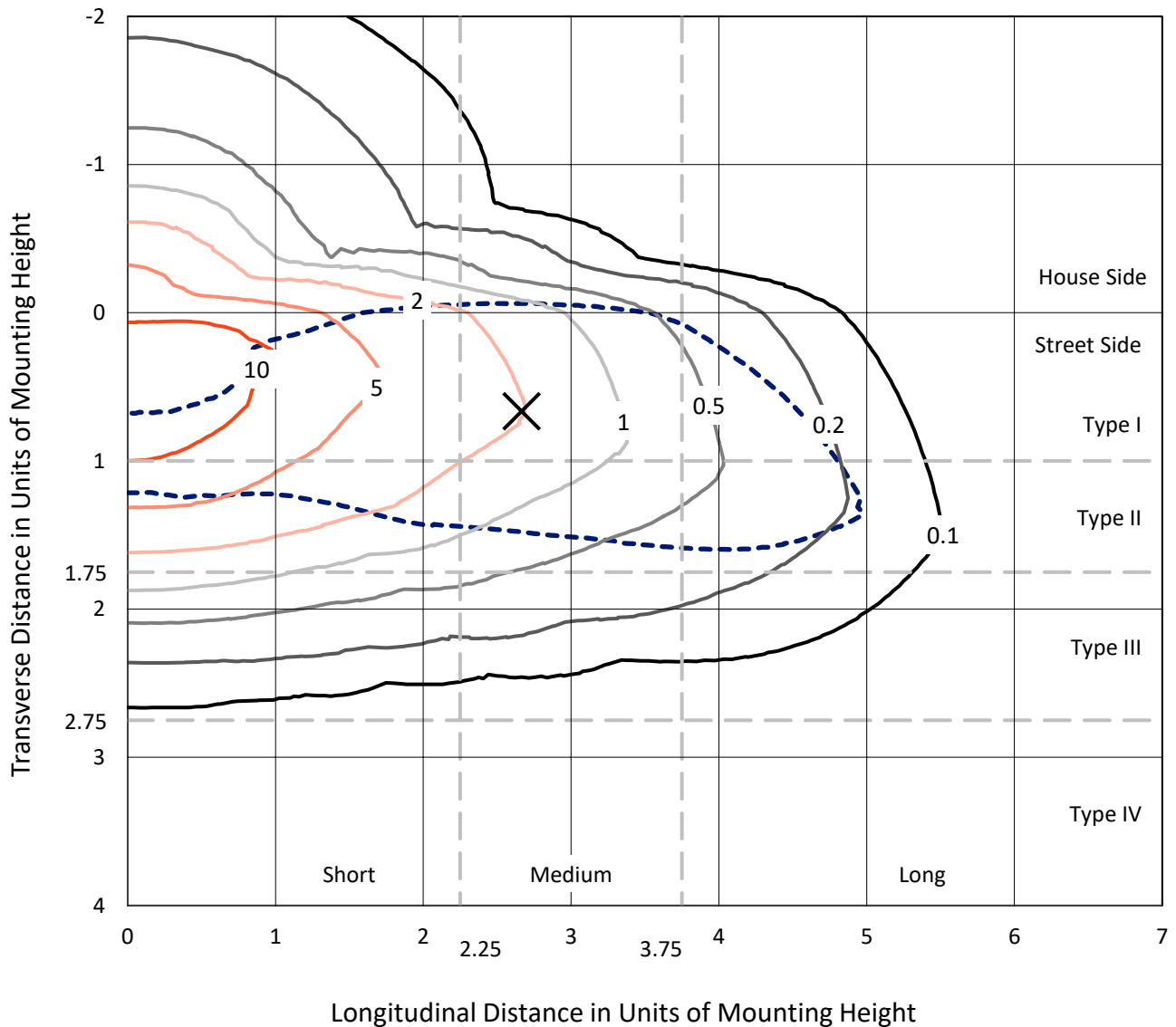
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

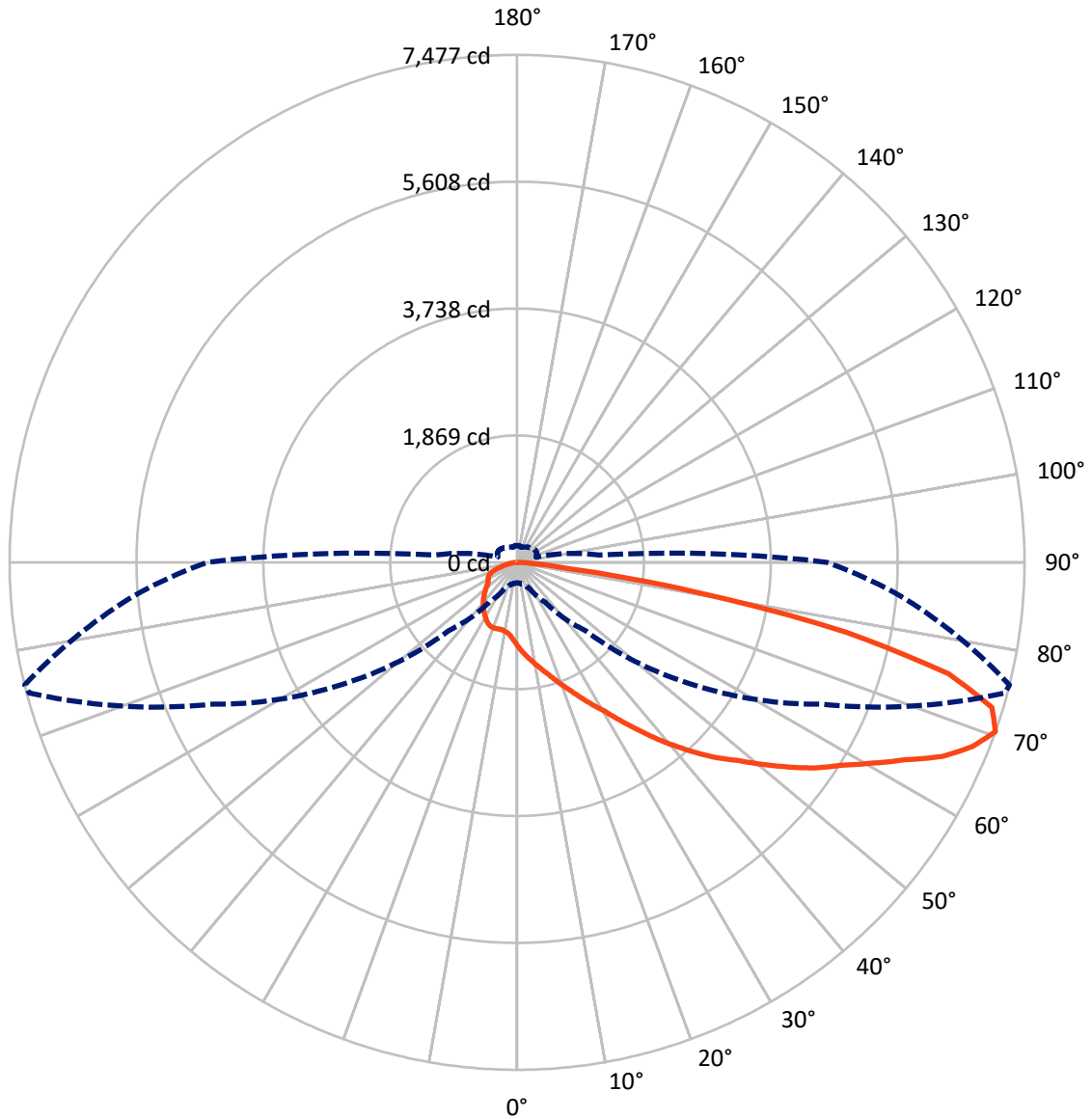
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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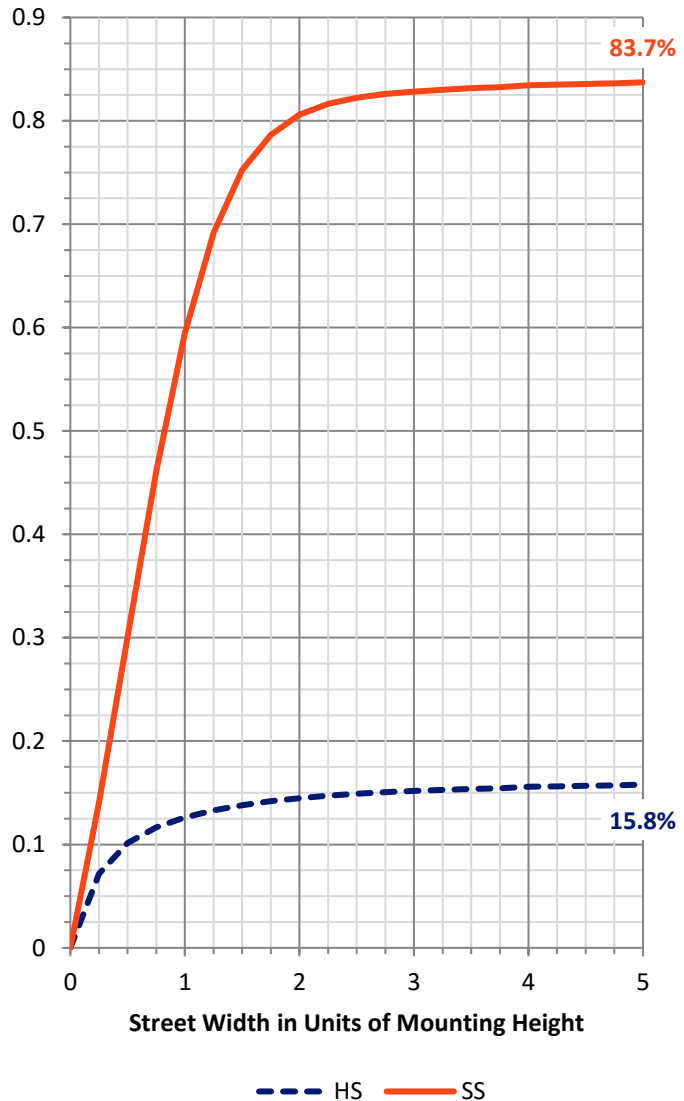
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1508.8	0.0	1508.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	7898.2	0.0	7898.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	9407.0	0.0	9407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	1.3
10°-20°	396.9	4.2
20°-30°	731.4	7.8
30°-40°	1225.5	13.0
40°-50°	1741.3	18.5
50°-60°	2010.5	21.4
60°-70°	1848.2	19.6
70°-80°	1165.4	12.4
80°-90°	167.6	1.8
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°	9407.0	100.0
0°-180°	9407.0	100.0

**Coefficient of Utilization**

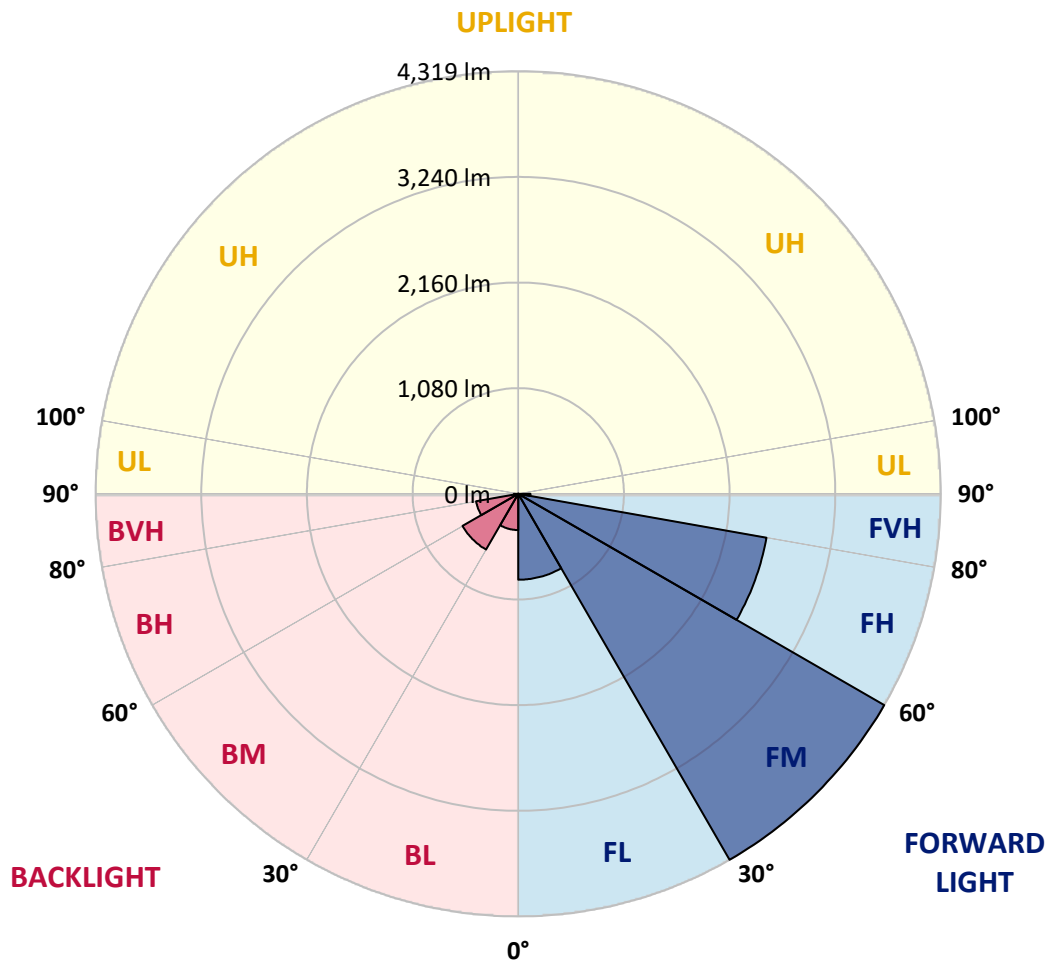


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.3	9.3			
FM (30°-60°)	4319.5	45.9			
FH (60°-80°)	2576.2	27.4			G2/5000
FVH (80°-90°)	124.3	1.3			G2/225
BL (0°-30°)	370.4	3.9	B1/500		
BM (30°-60°)	657.8	7.0	B1/1000		
BH (60°-80°)	437.3	4.6	B1/500		G1/500
BVH (80°-90°)	43.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1485.4	1483.1	1476.3	1465.0	1456.0	1428.8	1392.6	1360.9	1313.3	1308.8	1261.2
5°	1619.0	1609.9	1609.9	1598.6	1587.3	1557.9	1512.6	1456.0	1388.0	1383.5	1292.9
7.5°	1682.4	1684.7	1680.1	1671.1	1673.3	1648.4	1607.7	1551.1	1458.2	1453.7	1336.0
10°	1773.0	1770.7	1761.6	1754.9	1752.6	1729.9	1693.7	1641.6	1544.3	1535.2	1385.8
12.5°	1861.3	1854.5	1856.7	1854.5	1850.0	1827.3	1793.3	1741.3	1621.3	1616.7	1446.9
15°	1911.1	1908.8	1924.7	1929.2	1947.3	1926.9	1897.5	1838.6	1729.9	1711.8	1519.4
17.5°	1942.8	1940.5	1956.4	1992.6	2026.6	2026.6	2017.5	1954.1	1834.1	1820.5	1600.9
20°	1997.1	2006.2	2033.4	2062.8	2112.6	2121.7	2119.4	2092.2	1954.1	1940.5	1691.5
22.5°	2105.8	2101.3	2123.9	2169.2	2214.5	2228.1	2230.4	2230.4	2092.2	2067.3	1784.3
25°	2339.0	2327.7	2309.6	2305.1	2359.4	2357.2	2350.4	2366.2	2237.2	2219.0	1890.7
27.5°	2782.9	2758.0	2687.8	2547.4	2515.7	2527.0	2493.0	2495.3	2402.5	2379.8	1981.3
30°	3204.0	3192.7	3127.0	2957.2	2778.3	2714.9	2656.1	2631.1	2585.9	2547.4	2078.7
32.5°	3584.4	3586.7	3507.4	3321.8	3138.4	2939.1	2837.2	2785.1	2803.2	2769.3	2212.2
35°	3842.6	3822.2	3772.4	3647.8	3448.6	3258.4	3063.6	2948.2	3045.5	3007.0	2345.8
37.5°	3994.3	3978.4	3937.7	3849.4	3749.7	3566.3	3319.5	3142.9	3333.1	3276.5	2515.7
40°	4071.3	4048.6	4007.9	3971.6	3924.1	3824.4	3607.1	3364.8	3595.8	3545.9	2683.2
42.5°	4080.3	4064.5	4041.8	4023.7	4039.6	4026.0	3887.8	3622.9	3872.0	3817.7	2875.7
45°	4073.5	4084.8	4057.7	4026.0	4057.7	4173.2	4173.2	3881.1	4146.0	4105.2	3059.1
47.5°	4078.1	4066.7	4057.7	4048.6	4053.1	4211.6	4370.2	4123.3	4408.6	4361.1	3274.2
50°	3890.1	3906.0	3983.0	4016.9	4037.3	4220.7	4528.7	4386.0	4734.7	4675.8	3514.2
52.5°	3292.3	3301.4	3652.4	3906.0	3987.5	4184.5	4639.6	4678.1	5056.2	5011.0	3772.4
55°	2536.0	2583.6	2916.5	3536.9	3874.3	4123.3	4673.6	4868.3	5384.6	5348.3	4032.8
57.5°	2087.7	2094.5	2287.0	2841.7	3516.5	4066.7	4707.5	5042.7	5678.9	5638.2	4304.5
60°	1732.2	1716.4	1834.1	2191.9	2921.0	3840.3	4714.3	5180.8	6020.8	6007.3	4585.3
62.5°	1272.6	1290.7	1403.9	1707.3	2284.7	3380.6	4680.4	5298.5	6428.4	6410.3	4897.7
65°	781.2	803.8	942.0	1220.5	1729.9	2683.2	4458.5	5359.7	6856.4	6897.1	5235.1
67.5°	414.4	430.2	511.7	738.2	1186.5	2044.7	3924.1	5282.7	7218.7	7236.8	5558.9
70°	303.4	305.7	332.9	416.6	715.5	1422.0	3124.8	4947.6	7440.6	7476.8	5665.3
72.5°	264.9	267.2	278.5	298.9	389.5	867.2	2239.4	4363.4	7347.7	7316.0	5486.5
75°	240.0	240.0	249.1	255.9	285.3	480.0	1372.2	3570.8	6639.0	6568.8	4678.1
77.5°	206.1	206.1	215.1	224.2	246.8	310.2	717.8	2647.0	5076.6	4956.6	3199.5
80°	165.3	165.3	176.6	187.9	217.4	233.2	351.0	1770.7	2902.9	2726.2	1456.0
82.5°	113.2	122.3	142.7	156.2	181.1	165.3	206.1	765.3	914.8	792.5	328.3
85°	67.9	72.5	101.9	117.7	135.9	88.3	126.8	294.4	274.0	240.0	74.7
87.5°	6.8	11.3	40.8	47.6	47.6	24.9	54.3	70.2	79.3	81.5	18.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1234.1	1206.9	1154.8	1107.3	1059.7	1028.0	996.3	985.0	969.1	957.8	966.9
5°	1245.4	1188.8	1089.1	1005.4	948.8	905.7	885.4	874.0	865.0	862.7	860.4
7.5°	1259.0	1175.2	1041.6	948.8	894.4	874.0	869.5	869.5	869.5	871.8	874.0
10°	1288.4	1179.7	1016.7	917.1	887.6	883.1	885.4	894.4	894.4	896.7	896.7
12.5°	1322.4	1191.0	998.6	912.5	894.4	896.7	898.9	903.5	903.5	910.3	908.0
15°	1372.2	1213.7	996.3	917.1	901.2	896.7	896.7	894.4	894.4	894.4	898.9
17.5°	1435.6	1245.4	998.6	917.1	894.4	885.4	878.6	871.8	862.7	867.2	862.7
20°	1499.0	1283.9	998.6	905.7	876.3	853.7	833.3	822.0	810.6	808.4	810.6
22.5°	1578.2	1329.2	987.2	880.8	837.8	806.1	776.7	760.8	742.7	735.9	731.4
25°	1646.2	1365.4	964.6	844.6	794.8	749.5	711.0	683.8	661.2	656.7	656.7
27.5°	1716.4	1397.1	930.6	799.3	733.6	683.8	640.8	606.8	584.2	581.9	579.7
30°	1782.0	1424.3	885.4	749.5	679.3	620.4	570.6	541.2	520.8	509.5	502.7
32.5°	1868.1	1460.5	842.3	699.7	615.9	557.0	511.7	486.8	459.7	441.5	434.8
35°	1976.8	1503.5	794.8	645.3	559.3	500.4	473.2	437.0	403.1	382.7	375.9
37.5°	2099.0	1564.6	745.0	588.7	502.7	459.7	443.8	387.2	351.0	344.2	341.9
40°	2250.7	1623.5	688.4	529.9	448.3	437.0	409.8	351.0	332.9	330.6	328.3
42.5°	2402.5	1686.9	634.0	471.0	405.3	409.8	371.3	341.9	326.1	321.5	319.3
45°	2579.1	1750.3	579.7	418.9	371.3	371.3	351.0	332.9	319.3	314.7	314.7
47.5°	2764.7	1813.7	520.8	373.6	346.4	332.9	335.1	321.5	312.5	307.9	305.7
50°	2998.0	1874.9	466.5	341.9	330.6	312.5	319.3	310.2	305.7	301.2	298.9
52.5°	3217.6	1902.0	416.6	323.8	321.5	303.4	305.7	301.2	298.9	292.1	289.8
55°	3432.7	1895.2	378.1	314.7	310.2	301.2	296.6	294.4	292.1	285.3	283.0
57.5°	3672.7	1886.2	353.2	312.5	303.4	294.4	294.4	287.6	278.5	278.5	278.5
60°	3921.8	1856.7	341.9	312.5	301.2	294.4	289.8	283.0	274.0	276.2	274.0
62.5°	4202.6	1800.1	335.1	319.3	303.4	292.1	287.6	278.5	267.2	269.5	267.2
65°	4449.4	1684.7	330.6	326.1	307.9	294.4	283.0	271.7	258.1	260.4	258.1
67.5°	4617.0	1489.9	317.0	330.6	314.7	292.1	278.5	262.7	244.5	253.6	251.3
70°	4569.4	1211.4	292.1	321.5	321.5	294.4	271.7	251.3	231.0	249.1	242.3
72.5°	4200.3	910.3	244.5	289.8	317.0	294.4	258.1	233.2	215.1	226.4	212.8
75°	3448.6	618.2	194.7	231.0	296.6	296.6	246.8	215.1	192.5	185.7	181.1
77.5°	2151.1	384.9	151.7	169.8	249.1	294.4	235.5	192.5	160.8	156.2	151.7
80°	851.4	206.1	120.0	122.3	183.4	269.5	219.6	163.0	129.1	124.5	115.5
82.5°	194.7	104.2	83.8	81.5	113.2	219.6	199.3	129.1	99.6	99.6	83.8
85°	58.9	54.3	54.3	52.1	56.6	113.2	154.0	88.3	67.9	47.6	40.8
87.5°	15.9	22.6	20.4	18.1	18.1	15.9	49.8	22.6	13.6	6.8	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)