

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633271

Luminaire Tested: GWS-SA2E-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8886.7 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

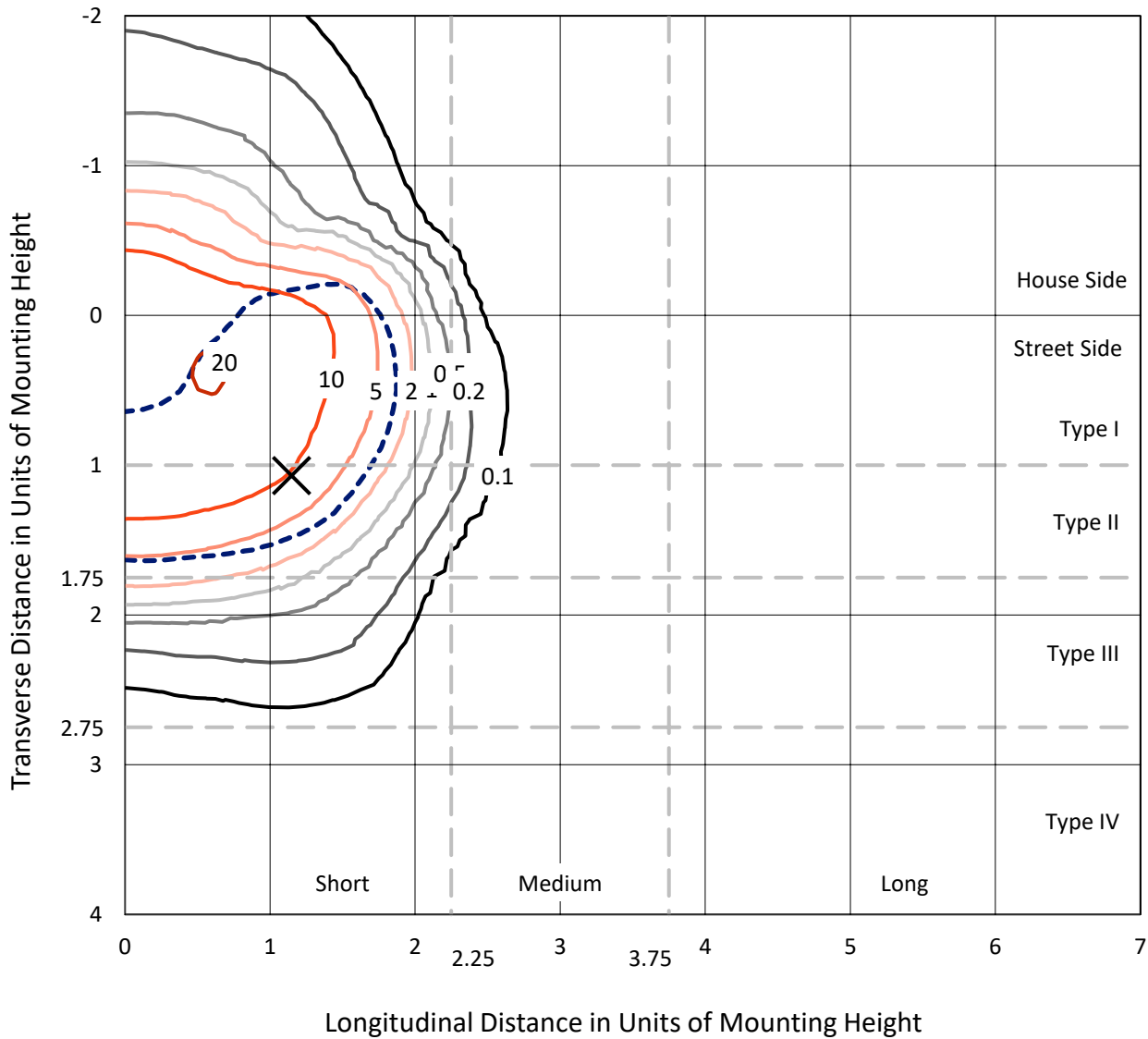
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

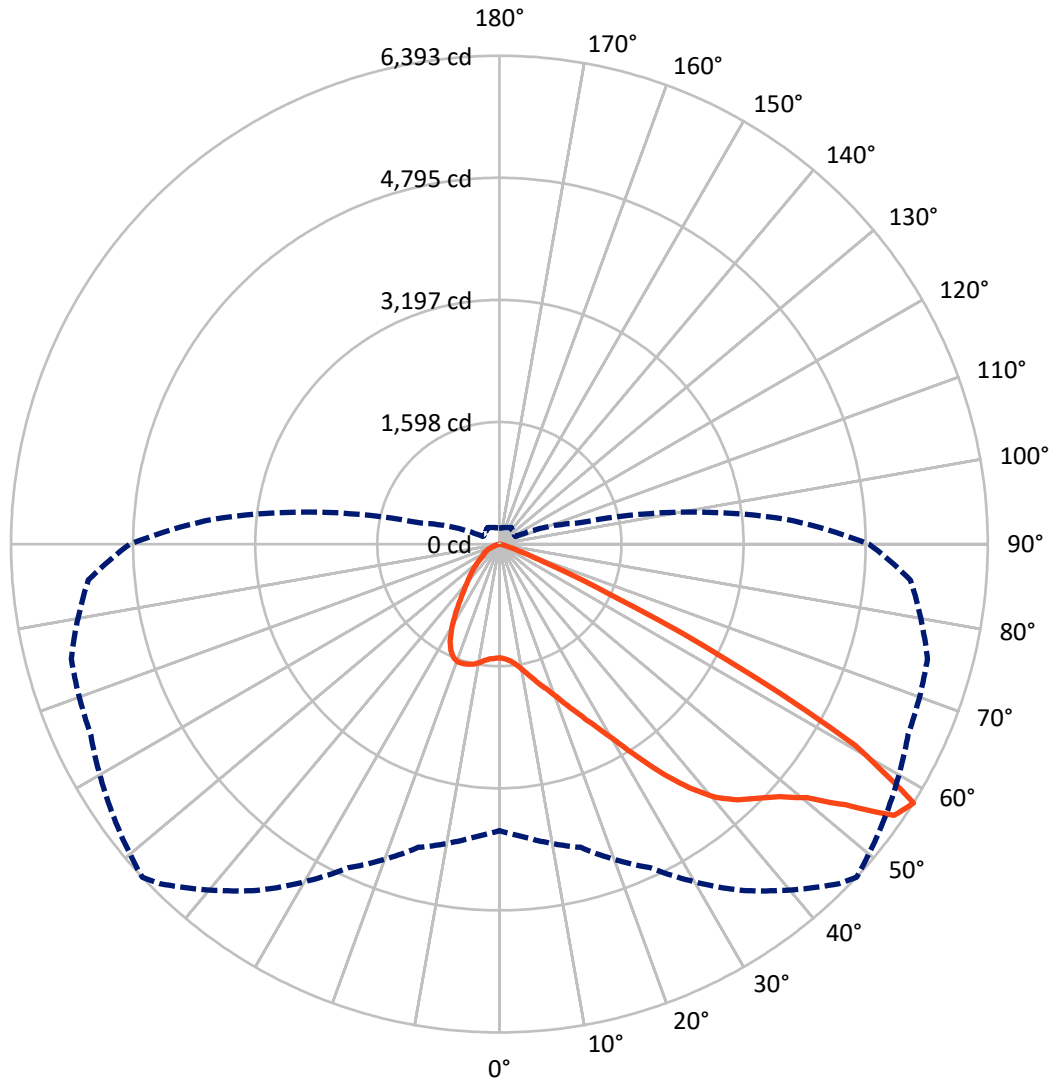
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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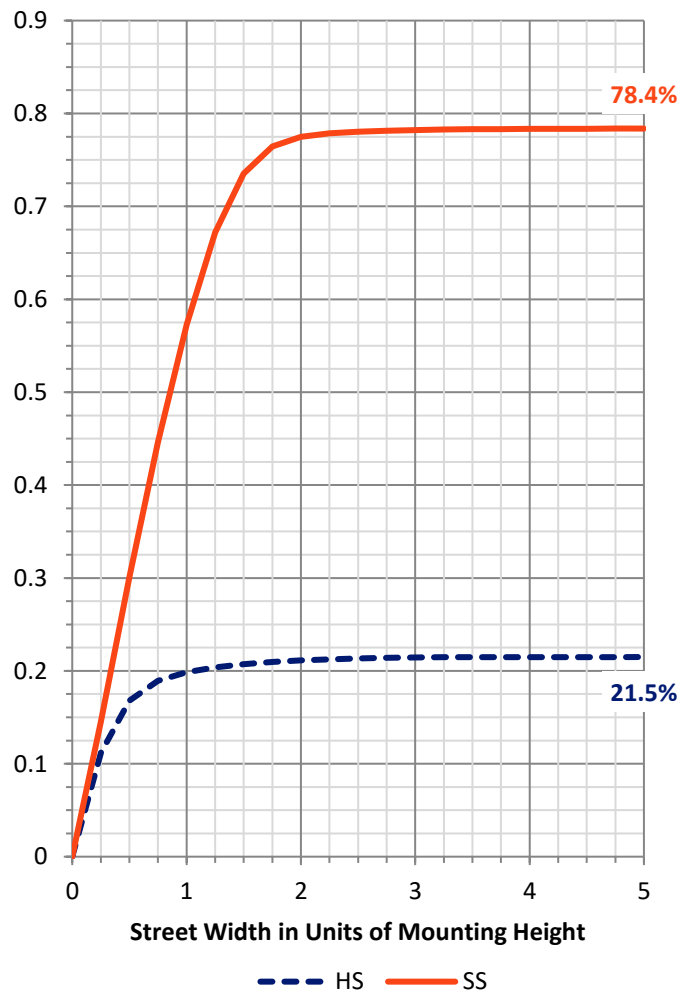
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.0	0.0	1928.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6958.7	0.0	6958.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	8886.7	0.0	8886.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.7
10°-20°	499.4	5.6
20°-30°	927.3	10.4
30°-40°	1484.4	16.7
40°-50°	2169.8	24.4
50°-60°	2677.9	30.1
60°-70°	894.8	10.1
70°-80°	83.4	0.9
80°-90°	1.7	0.0
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°	8886.7	100.0
0°-180°	8886.7	100.0

Coefficient of Utilization



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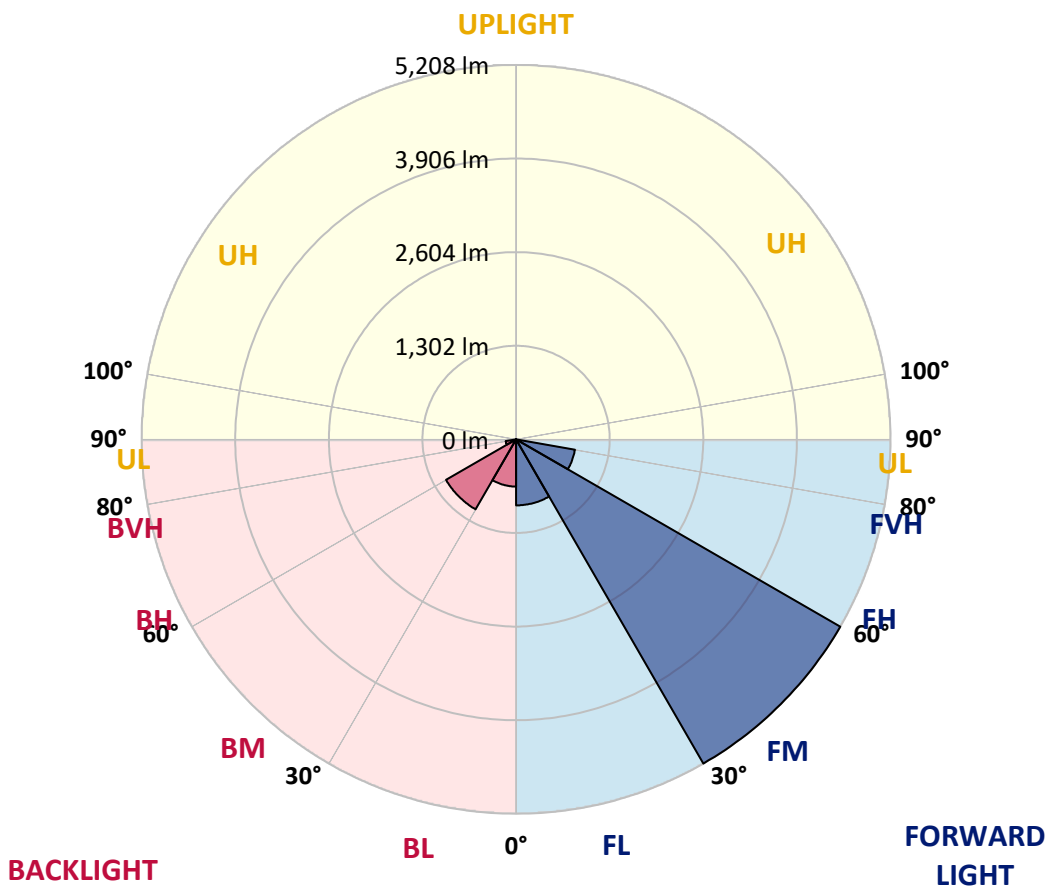
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.4	10.3			
FM (30°-60°)	5207.5	58.6			
FH (60°-80°)	831.6	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	656.3	7.4	B2/1000		
BM (30°-60°)	1124.6	12.7	B2/2500		
BH (60°-80°)	146.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1503.1	1502.1	1501.1	1507.2	1505.2	1504.1	1506.2	1506.2	1506.2	1500.0	1487.6
5°	1539.2	1539.2	1538.2	1544.4	1539.2	1536.1	1537.2	1537.2	1533.0	1521.7	1506.2
7.5°	1596.0	1593.9	1591.8	1598.0	1592.9	1591.8	1593.9	1587.7	1580.5	1561.9	1540.3
10°	1677.5	1677.5	1674.4	1680.6	1676.4	1674.4	1674.4	1670.2	1656.8	1627.9	1596.0
12.5°	1789.9	1784.8	1777.5	1772.4	1770.3	1769.3	1770.3	1764.1	1749.7	1712.5	1668.2
15°	1912.7	1908.6	1897.2	1889.0	1877.6	1875.5	1881.7	1876.6	1862.1	1811.6	1748.7
17.5°	2067.4	2072.6	2043.7	2026.2	1993.2	1991.1	1993.2	2001.4	1991.1	1926.1	1834.3
20°	2199.5	2203.6	2181.9	2169.6	2139.6	2126.2	2130.4	2143.8	2132.4	2056.1	1928.2
22.5°	2340.8	2346.0	2323.3	2297.5	2284.1	2284.1	2299.6	2318.1	2302.6	2202.6	2035.5
25°	2510.0	2514.1	2495.6	2461.5	2437.8	2467.7	2490.4	2539.9	2514.1	2378.0	2162.3
27.5°	2704.0	2705.0	2678.2	2643.1	2630.7	2686.4	2709.1	2785.5	2775.1	2575.0	2296.5
30°	2911.3	2912.4	2906.2	2882.4	2871.1	2944.3	2975.3	3085.7	3078.5	2819.5	2479.1
32.5°	3126.9	3126.9	3138.3	3136.2	3149.6	3269.3	3318.8	3444.7	3437.5	3118.7	2706.0
35°	3343.6	3344.6	3364.2	3413.7	3469.4	3628.3	3693.3	3846.0	3829.5	3476.7	2995.9
37.5°	3590.2	3579.8	3606.7	3680.9	3804.7	3988.4	4050.3	4195.7	4177.2	3842.9	3374.5
40°	3887.3	3868.7	3868.7	3955.4	4095.7	4307.1	4359.8	4432.0	4369.0	4139.0	3745.9
42.5°	4215.3	4197.8	4175.1	4251.4	4369.0	4534.1	4577.4	4557.8	4506.3	4418.6	4168.9
45°	4547.5	4520.7	4536.2	4582.6	4650.7	4729.1	4745.6	4654.8	4631.1	4655.8	4518.6
47.5°	4800.3	4781.7	4819.9	4884.9	4940.6	4951.9	4940.6	4814.7	4812.7	4900.4	4761.1
50°	4884.9	4886.9	4992.2	5134.5	5224.3	5233.6	5218.1	5073.7	5054.1	5079.9	4892.1
52.5°	4893.1	4901.4	5055.1	5326.4	5570.9	5682.3	5670.0	5514.2	5322.3	5294.4	5090.2
55°	4694.0	4742.5	4957.1	5353.2	5873.2	6229.1	6270.4	5972.2	5687.5	5663.8	5516.2
57.5°	3752.1	3851.2	4110.1	4674.4	5535.8	6285.9	6393.2	6178.6	5903.1	5802.0	5401.7
60°	2242.8	2365.6	2614.2	3306.4	4213.3	5166.5	5351.2	5381.1	5254.2	4962.2	4144.1
62.5°	962.5	952.2	1258.6	1788.9	2505.9	3283.8	3367.3	3497.3	3607.7	3302.3	2515.2
65°	330.1	359.0	499.3	806.8	1254.5	1524.8	1599.1	1715.6	1872.4	1545.4	921.3
67.5°	204.3	216.6	287.8	476.6	676.8	666.4	633.4	614.9	598.4	409.6	252.8
70°	148.6	158.9	202.2	328.1	455.0	319.8	277.5	224.9	249.7	230.1	179.5
72.5°	100.1	108.3	139.3	199.1	233.2	155.8	144.4	164.0	198.1	188.8	146.5
75°	59.8	65.0	79.4	97.0	94.9	80.5	81.5	115.5	151.7	141.3	104.2
77.5°	41.3	43.3	52.6	62.9	46.4	24.8	22.7	32.0	51.6	51.6	35.1
80°	10.3	13.4	13.4	8.3	7.2	6.2	6.2	9.3	14.4	10.3	5.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1494.9	1482.5	1490.7	1488.7	1494.9	1496.9	1487.6	1485.6	1486.6	1474.2	1470.1
5°	1509.3	1494.9	1499.0	1494.9	1502.1	1508.3	1505.2	1509.3	1514.5	1505.2	1501.1
7.5°	1540.3	1525.8	1524.8	1518.6	1528.9	1533.0	1532.0	1543.4	1553.7	1547.5	1541.3
10°	1593.9	1574.3	1572.2	1567.1	1570.2	1573.3	1561.9	1564.0	1573.3	1566.0	1563.0
12.5°	1659.9	1636.2	1631.0	1618.7	1618.7	1603.2	1578.4	1573.3	1580.5	1575.3	1570.2
15°	1731.1	1699.1	1690.9	1669.2	1648.6	1619.7	1593.9	1587.7	1592.9	1586.7	1582.6
17.5°	1810.6	1774.4	1747.6	1709.4	1664.1	1630.0	1601.1	1587.7	1579.5	1567.1	1566.0
20°	1889.0	1841.5	1796.1	1735.2	1675.4	1623.8	1576.4	1541.3	1511.4	1492.8	1485.6
22.5°	1979.7	1909.6	1836.3	1750.7	1665.1	1586.7	1503.1	1443.3	1391.7	1374.2	1365.9
25°	2076.7	1985.9	1876.6	1765.2	1630.0	1504.1	1390.7	1301.9	1233.9	1211.2	1201.9
27.5°	2184.0	2059.2	1917.8	1762.1	1557.8	1386.5	1235.9	1125.5	1058.5	1037.8	1045.1
30°	2320.2	2154.1	1969.4	1730.1	1449.5	1221.5	1045.1	952.2	901.7	882.1	883.1
32.5°	2501.8	2290.3	2044.7	1662.0	1310.2	1033.7	879.0	810.9	776.8	751.0	749.0
35°	2761.7	2497.6	2114.9	1552.6	1141.0	866.6	754.1	700.5	653.0	623.1	628.3
37.5°	3073.3	2758.6	2153.1	1405.1	951.2	736.6	660.3	605.6	551.9	507.6	512.7
40°	3442.6	3100.1	2150.0	1211.2	777.9	647.9	581.9	517.9	450.8	410.6	414.7
42.5°	3854.3	3423.0	2082.9	1005.9	644.8	575.7	506.5	426.1	361.1	336.3	337.4
45°	4211.2	3685.1	1965.3	793.3	542.6	505.5	428.1	345.6	316.7	299.2	298.1
47.5°	4475.3	3877.0	1797.1	624.1	460.1	441.5	351.8	309.5	286.8	272.4	270.3
50°	4622.8	3944.0	1611.4	489.0	388.9	374.5	314.7	280.6	265.1	255.8	253.8
52.5°	4820.9	4024.5	1478.4	385.8	326.0	306.4	289.9	261.0	250.7	243.5	240.4
55°	5134.5	4180.3	1362.8	306.4	271.3	267.2	273.4	249.7	243.5	232.1	228.0
57.5°	4839.5	3755.2	1058.5	237.3	229.0	244.5	264.1	238.3	222.8	212.5	208.4
60°	3405.5	2496.6	532.3	190.9	204.3	229.0	248.6	215.6	200.1	202.2	200.1
62.5°	1877.6	1249.3	239.3	159.9	177.4	202.2	212.5	186.7	176.4	194.0	197.0
65°	613.8	425.0	138.2	123.8	140.3	165.1	183.6	177.4	175.4	196.0	202.2
67.5°	188.8	140.3	93.9	88.7	97.0	121.7	154.7	191.9	206.3	212.5	215.6
70°	141.3	110.4	80.5	75.3	79.4	92.8	131.0	159.9	150.6	151.7	149.6
72.5°	113.5	87.7	69.1	66.0	66.0	64.0	69.1	86.7	98.0	103.2	103.2
75°	79.4	61.9	52.6	48.5	38.2	30.9	27.9	27.9	24.8	23.7	22.7
77.5°	26.8	22.7	20.6	16.5	11.3	9.3	8.3	7.2	5.2	3.1	2.1
80°	4.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0	0.0
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)